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of courses for physical therapists,
physical therapists,

Columbia University

BULLETIN OF INFORMATION

Fiftieth Series, No. 33

September 9, 1950

ANNOUNCEMENT OF COURSES
IN

PHYSICAL THERAPY

OCCUPATIONAL THERAPY

COLLEGE OF PHYSICIANS AND SURGEONS

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FOR THE WINTER AND SPRING SESSIONS

1950-1951

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N.Y.

Columbia University Bulletin of Information

Fiftieth Series, No. 33

September 9, 1950

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The series includes the Report of the President to the Trustees and the Announcements of the several Colleges and Schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Secretary of the University.

C. U. P. 11,000—1950

INFORMATION

Application blanks and further information about the courses in this Announcement may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y. The office is open weekdays 9 a.m. to 5 p.m.; Saturdays by appointment. Telephone: WADsworth 3-2500, extension 475 or 7818.

WINTER SESSION

September 26, 1950, to February 1, 1951
Registration—September 22 to 26

SPRING SESSION

February 5 to June 2, 1951
Registration—February 1 to 3

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COLUMBIA-PRESBYTERIAN MEDICAL CENTER

Columbia University

in the City of New York

ANNOUNCEMENT OF

COURSES IN

PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

FOR THE WINTER AND SPRING SESSIONS

1950-1951



COLUMBIA-PRESBYTERIAN MEDICAL CENTER

630 WEST 168TH STREET

NEW YORK 32, N. Y.

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ACADEMIC CALENDAR

The complete Academic Calendar for the year 1950-1951 may be obtained from the Secretary of the University.

The University maintains three sessions during the year: the Winter Session, beginning September 26 and ending February 1; the Spring Session, beginning February 5 and ending June 2; and the Summer Session of six weeks.

1950

July	4	Tuesday. Independence Day. Holiday.
July	6	Thursday. Registration in Summer Session begins.
July	8	Saturday. Last day for registration in Summer Session for students desiring credit without payment of a late fee.
July	10	Monday. Fifty-first Summer Session begins.
July	11	Tuesday. Last day for making changes in program for the Summer Session.
August	1	Tuesday. Last day for filing application for deficiency and special examinations. The privilege of later application may be granted on payment of a late fee.
August	18	Friday. Final examinations in Summer Session. Fifty-first Summer Session ends.
September	14	Thursday. Examinations for deficient students begin.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES)

FOR THE WINTER SESSION

September	22	Friday, to September 26, Tuesday. For students in Physical Therapy and Occupational Therapy courses.
September	26	Tuesday. Opening exercises, 197th year.
September	27	Wednesday. Classes begin.
October	2	Monday. Last day for filing application or renewal of application for the degree of B.S. and for the certificate to be awarded in October. The privilege of later application may be granted on payment of a late fee.
October	7	Saturday. Last day for making changes in program for students in Physical Therapy and Occupational Therapy courses.
October	12	Thursday. Columbus Day. Not a University holiday.
November	7	Tuesday. Election Day. Holiday.
November	16	Thursday. Midterm date, Winter Session.
November	21	Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
November	23	Thursday. Thanksgiving Day. Holiday.
December	1	Friday. Last day for filing application or renewal of application for the degree of B.S. and for the certificate to be awarded in February. The privilege of later application may be granted on payment of a late fee.
December	21	Thursday, to

1951

January	3	Wednesday, inclusive. Christmas holidays.
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1951

- January 14 Sunday. Annual Commemoration Service in St. Paul's Chapel.
 January 22 Monday, to February 1, Thursday. Midyear examinations.
 February 1 Thursday. Winter Session ends.
-

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES)
 FOR THE SPRING SESSION

- February 1 Thursday, to February 3, Saturday. For students in Physical Therapy and Occupational Therapy courses.
-

- February 5 Monday. Spring Session begins. Classes begin.
 February 10 Saturday. Last day for making changes in program for students in Physical Therapy and Occupational Therapy courses.
 February 12 Monday. Lincoln's Birthday. Not a University holiday.
 February 22 Thursday. Washington's Birthday. Not a University holiday.
 March 1 Thursday. Last day for filing application or renewal of application for the degree of B.S. and for the certificate to be awarded in June. The privilege of later application may be granted on payment of a late fee.
 March 10 Saturday. Last day for filing application for deficiency and special examinations to be held in April. The privilege of later application may be granted on payment of a late fee.
 March 18 Sunday, to March 25, Sunday, inclusive. Easter holidays.
 April 2 Monday. Midterm date, Spring Session.
 April 9 Monday, to April 13, Friday, inclusive. Deficiency examinations.
 May 23 Wednesday, to June 2, Saturday. Final examinations.
 May 30 Wednesday. Memorial Day. Not a University holiday.
 June 2 Saturday. Spring Session ends.

COMMENCEMENT, JUNE 3 TO JUNE 7

- June 3 Sunday. Baccalaureate Service.
 June 7 Thursday. Conferring of degrees.
-

- July 4 Wednesday. Independence Day. Holiday.
 July 5 Thursday. Registration in Summer Session begins.
 July 7 Saturday. Last day for registration in Summer Session for students desiring credit without payment of a late fee.
 July 9 Monday. Fifty-second Summer Session begins.
 July 10 Tuesday. Last day for making changes in program for the Summer Session.
 August 1 Wednesday. Last day for filing application for deficiency and special examinations to be held in September. The privilege of later application may be granted on payment of a late fee.
 August 17 Friday. Final examinations in Summer Session. Fifty-second Summer Session ends.

COURSES IN
PHYSICAL THERAPY AND
OCCUPATIONAL THERAPY

ADMINISTRATIVE OFFICERS

DWIGHT D. EISENHOWER, LL.D., *President of the University*

WILLARD COLE RAPPEYE, A.M., M.D., Sc.D., *Dean, Faculty of Medicine; Vice President
in Charge of Medical Affairs*

WILLIAM BENHAM SNOW, M.D., *Associate Professor of Physical Medicine, Faculty of
Medicine; Director of Physical and Occupational Therapy, Columbia-Presbyterian
Medical Center*

FLOY PINKERTON, A.M., R.P.T., *Director of Training Courses in Physical Therapy*

MARY E. CALLAHAN, B.S., R.N., R.P.T., *Associate Director of Training Courses in
Physical Therapy*

MARJORIE FISH, A.B., O.T.R., *Director of Training Courses in Occupational Therapy*

MARIE LOUISE FRANCISCUS, B.S., O.T.R., *Associate Director of Training Courses in
Occupational Therapy*

THIS ANNOUNCEMENT describes two separate training courses offered by Columbia University: Physical Therapy and Occupational Therapy. These courses are given at the Columbia-Presbyterian Medical Center under the auspices of the Faculty of Medicine. The courses of study are approved by the Council on Medical Education and Hospitals of the American Medical Association and prepare the student to meet the qualifications for registration in either Physical or Occupational Therapy.

The information immediately following is concerned with general University regulations which apply to all students. For complete details on each of the two training programs, refer to the appropriate section in this Announcement.

REGISTRATION AND EXPENSES

REGISTRATION

Before attending any University course, every student must present himself at the office of the Registrar and file a registration form, giving such information as may be required. The office is situated on the second floor of the College of Physicians and Surgeons, 630 West 168th Street, and is open from 9 a.m. to 5 p.m. daily except Saturdays and holidays, and on Saturday from 9 a.m. to 12 noon. The periods set aside for registration of students in physical and occupational therapy for the Winter and Spring Sessions of the academic year 1950-1951 are as follows:

Winter Session: September 22 to September 26.

Spring Session: February 1 to February 3.

Approval of Program.—Programs for all students in physical and occupational therapy must be approved before registration by the directors in physical and occupational therapy. All changes of program must also be approved by the director, and no change of program will be permitted beyond the second Saturday after the opening of the Winter Session or beyond the first Saturday after the opening of the Spring Session (see Academic Calendar) except by special permission.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following fees are prescribed for physical and occupational therapy:

(a) University Fee

For each Winter or Spring Session or any part thereof \$ 10.00

(b) Tuition Fee

For all courses except where a special fee is fixed, per point 20.00

With the proviso that the fee for a Winter or Spring Session in the case of a student enrolled for fifteen or more points in physical therapy or in occupational therapy shall be 300.00

(c) Student Health and Hospitalization Fee

This fee will be used to pay the annual premium of the Associated Hospitals Service of New York for hospitalization insurance and to pay part of the cost of the student health service. For all students, per academic year 20.00

(d) Fee for Application

For any degree 20.00

For any certificate 10.00

(e) Privileges

1. Late registration or late application for a degree or certificate or for deficiency or special examinations 3.00

2. Renewal of application for any degree or certificate 1.00

3. Deficiency and special examinations 3.00

(f) Rebates

1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate.

2. After the last day of the period provided for change of course, as announced in the Academic Calendar, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

For the ultimate date for the completion of registration and for filing an application for a special examination, or for a certificate, without the payment of an additional fee, see the Academic Calendar.

A deposit for the use of lockers, keys, apparatus, material, and the like is required of students in certain schools and courses.

Acceptance Fee.—Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Director that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if the applicant does not register for the courses for the following academic year, it will not be returned. If he registers in the Division of Physical and Occupational Therapy in the class to which he has been admitted, the amount of the acceptance fee will be deducted from his tuition fees.

GENERAL REGULATIONS

RESIDENCE

All women students under twenty-three years of age, who are not living at home or with relatives, are required to secure approval of their residence from the Directors of Training Courses, Office of Physical and Occupational Therapy, College of Physicians and Surgeons. Detailed information concerning desirable accommodations may be obtained from this office.

STUDENT HEALTH SERVICE

In accordance with the requirements of the American Medical Association, a physical examination (including tuberculin tests) will be given each student in the professional courses during the first session of attendance. Further physical examinations will be given during the training period, whenever it is deemed advisable.

Students requiring hospitalization will be taken care of either in the wards of the Medical Center, or elsewhere, under a hospitalization insurance policy.

Daily office hours are held for sick students by the Student Health Service, Room 2-220, Vanderbilt Clinic. Members of the Health Service are available to attend ill students if they live near the Medical Center.

STUDENTS

Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the Office of Physical and Occupational Therapy for equitable relief.

Veterans. In University Hall Annex, on the Morningside campus, is a suboffice of the Veterans Administration where training officers may be consulted on matters pertaining to tuition and subsistence.

ABSENCES

It is a student's duty to attend punctually each class or laboratory exercise in each course. For credit toward the certificate and degree, regular attendance is required in addition to the proficiency attested by classwork and examination.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved powers of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Director. Students withdrawing are required to notify the Registrar immediately.

The Director may, for reasons of weight, grant a leave of absence to a student in good standing.

RESIDENCE HALLS AND OTHER FACILITIES

RESIDENCE HALLS

The Residence Halls of the University are located on or immediately adjacent to the Campus and afford easy access to libraries and classrooms as well as comfortable accommodations in an environment conducive to academic work. They serve also as a center of campus life and provide for students companionship with other students of like interests. The University, therefore, desires its students to live whenever possible in Residence Halls.

Within several of the Residence Halls are dining rooms maintained for all students and faculty of the University.

The Hall infirmaries are for the exclusive use of those living in the Residence Halls.

Assignment of rooms is made on the session basis. Room payments are due at the beginning of each session, but in case of need other arrangements can be made.

Students coming from out of town to attend evening classes or those wishing to stay overnight at Columbia may secure accommodations by applying to the Livingston Hall office (for men) or Johnson Hall office (for women).

Copies of the Residence Halls Announcements and application blanks for rooms will be furnished on request by the Secretary of the University, 213 Low Memorial Library.

Residence for Men

There are four University Residence Halls, on South Quadrangle, which have accommodations for approximately 1,684 men. Hartley Hall, Livingston Hall, and the lower floors of John Jay Hall are reserved for students in Columbia College; Furnald Hall for law and graduate students; and the upper floors of John Jay Hall for graduate and professional school students. Rates for the academic year range from \$170 to \$350. There are a few rooms available at \$140 which are assigned only with the approval of the Director of the University Placement Bureau, Alumni House. Application for these accommodations should be filed with the Men's Residence Halls Office, together with the statement that application has been made to the Director of the University Placement Bureau for his approval. These lowest-priced rooms will not be assigned to students holding scholarships amounting to \$400 or more.

All rates are subject to change if costs increase greatly.

Requests for further information and application forms should be sent to the Residence Halls Office, 125 Livingston Hall. The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

The main dining room is on the first floor of John Jay Hall. The lower John Jay Lobby leads to the Lion's Den, a grill room (open to both men and women students) with facilities for late breakfast, lunch, and dinner.

Residence for Women

Johnson Hall is provided by the University as a residence for women students in the graduate and professional schools. A limited number of rooms are assigned to full-time undergraduate students who are matriculated for a degree. The Hall was erected and particularly designed for the comfort and convenience of women students. With its various social rooms, attractive dining room, and comfortable bedrooms, it offers pleasant conditions for University life. The rates for rooms range from \$230 to \$455 for the academic year. The rate for two meals a day, breakfast and dinner, is \$330 for the academic year. All rates are subject to change if costs increase greatly. Residents of Johnson Hall are required to take breakfast and dinner in the dining room of Johnson Hall.

OFF-CAMPUS ACCOMMODATIONS

Columbia University maintains a Registry of Off-Campus Accommodations where the addresses of available furnished rooms in the neighborhood may be obtained. It is not possible to obtain listings by mail as these accommodations are for immediate rental, and it is advisable that rooms be engaged only after personal inspection. This Registry is for the use of faculty, staff, and students of the University, and each applicant must show a letter of admission or some other official Columbia correspondence to be eligible for this service. There is no charge for this service to either the student or the landlord and all financial arrangements

must be concluded between the applicant and the landlord. The Registry is located in Livingston Hall.

Women under twenty-one years of age are expected to make their selection from a special list of addresses.

VETERANS HOUSING

There are apartments at Shanks Village, New York, for married veteran students and faculty of Columbia University. Shanks Village is located within one hour's commuting distance of the campus. These apartments are assigned to applicants on a chronological priority basis of application as apartments become available. The prices range from \$29 for a studio apartment to \$38 per month for a three-bedroom apartment with kitchen, living room, and bath. These rates include water, electricity for lighting, and gas for cooking and hot water. There is a small additional charge for heating. Stoves and ice boxes are furnished and basic furniture is available, if desired, at a small rental.

These accommodations are available for only so long as the veteran is actively connected with the University. Inquiries and requests for applications should be sent to the Veterans Housing Bureau, Livingston Hall, Columbia University.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge as a center for the religious and social activities of the students. On the main and upper floors, reached by the Campus entrance, are the offices of the Chaplain and his staff and of the three Religious Counselors. These floors also contain an auditorium, a lounge, meeting room, kitchen, and other facilities. The lower floor, entered from the Broadway side, is occupied by the offices of the University Medical Officer.

THE LIBRARY

The University library system consists of the main collection housed in the Nicholas Murray Butler Library Building and over thirty departmental libraries and reading rooms located in various buildings. These libraries contain over two million volumes, exclusive of unbound pamphlets. Among those affording unusual advantage to the students in physical and occupational therapy are the libraries of Teachers College and the Medical Library of the College of Physicians and Surgeons located at the Columbia-Presbyterian Medical Center.

The physical and occupational therapy collection of reference books, periodicals, and pamphlets is housed at the Medical Library and at the Institute for the Crippled and Disabled.

Students registered for physical or occupational therapy courses have the privilege of using the Lending Service Department (Room 203, Butler Library), which provides, for a small daily fee, not only current books of general interest, fiction and nonfiction, but also books needed for required and recommended reading in many courses.

COORDINATED PROGRAM OF PHYSICAL MEDICINE

Physical Medicine cross-sections practically all medical specialties. The practice, teaching, and research in Physical Medicine need close integration for maximum availability and usefulness. Dr. Robert C. Darling, Associate Professor of Medicine, serves as Coordinator of the total program at the Columbia-Presbyterian Medical Center and institutions allied with the Medical School.

Physicians training in Physical Medicine under Baruch grants are integrated into the therapist training program. They work with the students and assist in the training of students.

THE INSTITUTE FOR THE CRIPPLED AND DISABLED

The Institute for the Crippled and Disabled, located at 400 First Avenue, is closely affiliated with Columbia University and offers broad clinical and educational facilities for the training of physical therapy and occupational therapy students. An occupational therapy teaching unit, established at the Institute, is used for instruction and houses a skills library. Special equipment for the instruction of kinesiology and for the instruction and laboratory practice of massage is provided for the students in physical therapy.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 a.m. to 5:30 p.m.; Saturdays, 8:45 a.m. to 1:30 p.m.

STUDENT ACTIVITIES

The Physical and Occupational Therapy Club is the student organization in which activities of a recreational, social, and professional nature are carried on. Men and women prominent in these fields are invited to address the Club.

One of the special activities is the visual education program of movies embracing physical and occupational therapy techniques, physical restoration, and vocational aspects of rehabilitation.

Each class of students has its own organization and officers with representatives on the University Student Council.

The Columbia University Student Council, composed of elected representatives from the students of the several schools and faculties of the University, represents the students in matters affecting the student body as a whole, with the object of promoting cooperation and understanding among the students, faculty, and administration.

Graduates of the Physical and Occupational Therapy programs have Alumni

Associations, which in turn are group members affiliated with the Alumni Federation of Columbia University.

Opportunities for exercise and recreation are provided.

Students are encouraged to utilize the educational and cultural opportunities offered in the City of New York.

STUDENT AID

LOAN FUNDS

Loan funds are provided in limited amount for student assistance. Application is made on a blank which may be obtained from the Bursar, Room 310, University Hall. Application for loans for the Winter Session should be made by September 15; for the Spring Session, by January 15.

EMPLOYMENT

The University Placement Bureau, located in Alumni House, is that department of the University through which men and women students and graduates are referred to suitable positions during their attendance at the University and after graduation. A booklet describing the facilities of the Placement Bureau and the more general types of employment opportunities available will be mailed upon request. Communications should be addressed to the Director of the University Placement Bureau, Alumni House, Columbia University, New York 27, N. Y.

The Physical and Occupational Therapy Office maintains a listing of positions throughout the country available to graduate therapists. Current graduates and alumni are encouraged to refer to the Office for these positions.

Training Courses in
Physical Therapy

ADMINISTRATIVE OFFICERS

- WILLIAM BENHAM SNOW, M.D. *Associate Professor of Physical Medicine, Faculty of Medicine; Director of Physical and Occupational Therapy, Columbia-Presbyterian Medical Center*
- FLOY PINKERTON, A.M., R.P.T. *Director of Training Courses in Physical Therapy*
- MARY E. CALLAHAN, B.S., R.N., R.P.T. *Associate Director of Training Courses in Physical Therapy*

OFFICERS OF INSTRUCTION

PHYSICAL THERAPY

- MARGUERITE ABBOTT, O.T.R. *Motor Disabilities*
B.S., Tufts; Graduate, Boston School of Occupational Therapy.
Instructor in Training Courses in Occupational Therapy.
- EDITH H. BROKAW *Practical Application*
Graduate, Philadelphia School of Occupational Therapy.
Instructor in Training Courses in Occupational Therapy.
- BESSIE B. BURGEMEISTER *Abnormal Psychology*
A.B., A.M., Ph.D., Columbia.
Research Psychologist, Department of Neurology.
Research Assistant in Neurology.
- MARY ELIZABETH CALLAHAN, R.N., R.P.T. *Physical Therapy Theory, Massage, Seminar*
Graduate, Clinton Hospital, Clinton, Mass.; Physical Therapy, Posse Institute.
Associate Director of Training Courses in Physical Therapy.
- SIDNEY CARTER *Psychiatry*
A.B., Dartmouth; M.D., Boston University.
Assistant Professor of Neurology.
- LOUIS J. CIZEK *Physiology*
B.S., Fordham; M.D., Columbia.
Assistant Professor of Physiology.
- CASSIUS LOPEZ DEVICTORIA *Practical Application*
M.D., New York Medical College.
Instructor in Medicine; Director, Physical Therapy, St. Clare's Hospital.
- HERBERT O. ELFTMAN *Anatomy and Physiology*
A.B., A.M., California; Ph.D., Columbia.
Associate Professor of Anatomy.
- MARJORIE FISH, O.T.R. *Theory of Occupational Therapy*
A.B., Swarthmore; Graduate, Boston School of Occupational Therapy.
Director, Training Courses in Occupational Therapy.
- MARIE LOUISE FRANCISCUS, O.T.R. *Principles and Practice of Occupational Therapy*
B.S., Ohio State; Graduate, Philadelphia School of Occupational Therapy.
Associate Director of Training Courses for Occupational Therapists.
- GILBERT H. GLASER *Psychiatry*
A.B., M.D., Columbia.
Senior Research Psychiatrist, New York State Psychiatric Institute.
Instructor in Neurology.

- LEONARD J. GOLDWATER *Practical Application*
A.B., Michigan; M.D., Sc.D., New York University; M.S., Columbia.
Professor of Industrial Hygiene.
- JUSTIN L. GREENE *Motor Disabilities, Neurology*
A.B., Columbia; M.D., Paris.
Assistant Attending Neurologist, Neurological Institute.
Instructor in Neurology.
- ARNO DAVID GUREWITSCH *Massage, Practical Application*
M.D., Basel.
Instructor in Medicine; Assistant Attending Physician, Presbyterian Hospital.
- MORTON HOBERMAN *Motor Disabilities, Therapeutic Exercise*
B.S., New York University; M.B., M.D., Wayne.
Assistant Physician in charge of Physical Therapy, New York State Rehabilitation Hospital.
Chief of Physical Therapy, Vanderbilt Clinic, Columbia-Presbyterian Medical Center.
Instructor in Medicine.
- PAUL FREDERICK ADAM HOFER *Physical Therapy Theory*
A.M., Ph.D., Berlin; M.D., Wurzburg.
Associate Professor of Neurology.
- WILLIAM A. HORWITZ *Physical Therapy Theory*
M.D., Albany Medical College; D.Sc., Columbia.
Assistant Clinical Professor of Psychiatry.
- STEPHEN S. HUDACK *Practical Application*
A.B., M.D., Western Reserve.
Associate Professor of Orthopedic Surgery.
- KENNETH KELLEY *Psychiatry*
A.B., Stanford; M.B., M.D., Northwestern.
Assistant in Psychiatry.
- DONALD W. KING *Pathology*
A.B., M.D., Syracuse.
Instructor in Pathology.
- MARION D. LAIRD *Practical Application*
B.A., Queens, Ontario; M.D., Toronto.
Instructor in Obstetrics and Gynecology, Department of Obstetrics and Gynecology, Presbyterian Hospital.
- HARRIET G. MCCORMICK *Swimming*
B.S., Wisconsin; A.M., Ph.D., Columbia.
Lecturer in Dental Hygiene.
- HARRISON L. McLAUGHLIN *Practical Application*
M.D., Queens University Medical College.
Professor of Clinical Orthopedic Surgery.
- JAMES LOWRY MILLER *Practical Application*
A.B., North Carolina, M.D., Pennsylvania.
Associate Clinical Professor of Dermatology.
- JOSEPH MOLDAVER *Physical Therapy Theory*
M.D., Brussels.
Associate in Neurology, College of Physicians and Surgeons.
- CHARLES ROBERT NOBACK *Anatomy*
B.S., Cornell; M.S., New York University; Ph.D., Minnesota.
Assistant Professor of Anatomy.

- FLOY PINKERTON, R.P.T. *Kinesiology, Massage, Relaxation,
Therapeutic Exercise, Seminar*
B.S., Stephen F. Austin State Teachers College; A.M., Columbia.
Director, Training Courses for Physical Therapists.
- BERTRAM J. SANGER *Practical Application*
A.B., Texas; M.D., Johns Hopkins.
Assistant Clinical Professor of Medicine.
- DANIEL SCIARRA *Neuroanatomy*
B.A., M.D., Harvard.
Associate in Neurology.
- ALAN DEFORD SMITH *Adviser in Orthopedics*
A.B., M.D., Columbia.
Professor of Orthopedic Surgery.
- WILLIAM BENHAM SNOW *Therapeutic Exercise, Ethics,
Practical Application, Physical Therapy Theory, Motor Disabilities*
M.D., Long Island College of Medicine.
Director, Physical Therapy and Occupational Therapy, Columbia-Presbyterian Medical Center.
Associate Professor of Physical Medicine.
- BLANCHE TALMUD *Recreation*
B.S., New York University; Graduate, School of Physical Therapy, New York University.
Supervising Physical Therapist, Institute for the Crippled and Disabled; Lecturer in Physical Therapy.
- WALTER A. L. THOMPSON *Orthopedics*
M.D., Yale.
Assistant Professor of Clinical Orthopedic Surgery.
- SONYA EISENMENGER WEBER *Therapeutic Exercise*
A.B., Vienna; D.Sc., Eastern Reserve.
Instructor in Physical Medicine.
- DEGRAAF WOODMAN *Practical Application*
B.S., M.D., Cornell.
Clinical Professor of Otolaryngology.

SPECIAL LECTURERS

- ARTHUR ABRAMSON *Practical Application*
B.S., M.D., C.M., McGill.
Chief, Physical Medicine Rehabilitation Service, Bronx Veterans Administration Hospital.
- ELIZABETH M. CARRICK *Social Case Work and Records*
B.S., Ohio State; A.M., New York School of Social Work.
Instructor, New York School of Social Work.
- MARIAN CASS *Motor Disabilities, Speech*
A.B., Nebraska; A.M., Ed.D., Columbia; M.D., Baltimore.
Associated with Dr. Winthrop M. Phelps.
- EDITH HANSEN, R.N., P.H.N. *Physical Therapy Theory*
Graduate, General Lutheran Hospital, Sioux City, Iowa.
- EDWARD F. HARTUNG *Practical Application*
A.B., M.D., Columbia.
Assistant Clinical Professor of Medicine, New York Post-Graduate Medical School and Hospital.
- MARGARET HEBERT *Bandaging, Physical Therapy Theory,
Therapeutic Exercise, Hydrotherapy*
R.N., Quincy General Hospital; R.P.T., Columbia.

- JETTA HENDIN *Therapeutic Exercise*
 B.S., Manitoba.
 Physical Therapist, Columbia-Presbyterian Medical Center.
- SHULAMITH KASTEIN *Therapeutic Exercise*
 Speech Pathologist, Department of Audiology and Phonology, Presbyterian Hospital.
- HENRY KESSLER *Practical Application*
 A.B., M.D., Cornell; A.M., Ph.D., Columbia.
 Director, The Kessler Institute for Rehabilitation, West Orange, New Jersey.
- DOREEN POLLACK *Therapeutic Exercise*
 Speech and Hearing Therapist, Department of Audiology and Phonology, Presbyterian Hospital.
- MARY JANE PRESTON *Recreation*
 Recreation Instructor, Pilgrim State Hospital, Brentwood, New York.
- JOSEPHINE L. RATHBONE *General*
 A.B., A.M., Wellesley; Ph.D., Columbia.
 Associate Professor of Health and Physical Education, Teachers College.
- FRANK KNAPP SAFFORD, JR. *Physical Therapy Theory, Radiation*
 M.D., Vienna.
 Assistant Professor of Physical Medicine and Rehabilitation, New York Medical College.
- ALICE SELIGMAN *Practical Application*
 B.S., Alabama; A.M., Columbia; Graduate, Columbia Physical Therapy Training Courses.
- MARJORIE P. SHELDON *Rehabilitation*
 B.S., A.M., New York University.
 Instructor, Orthopedic Physical Education, Branch Brook School, Newark, New Jersey.
- MANDELL SHIMBERG *Practical Application*
 M.R.C.S., London; M.D., Syracuse.
 Chief, Physical Medicine Rehabilitation, Veterans Administration.
- DOUGLAS SJOBERG *Physics*
 A.B., A.M., University of California.
- BEVERLY CHEW SMITH *Practical Application*
 M.D., Virginia.

PHYSICAL THERAPY

Physical therapy is the treatment of disease and injury by the use of such natural agents as sunshine, water, exercise, massage, mechanical forces, and electricity. Functional rehabilitation of persons injured by disease or accident is a pressing medical need; the skilful application of physical therapy following injury will do much to shorten the time of disability. The ultimate aim of any treatment is the maximal rehabilitation and adjustment of the patient. The success of this type of treatment is dependent upon the therapist's knowledge, care, and precision in the administration of the intelligent medical prescription.

The course of study here described gives the student a basic knowledge of the normal functions of the human body and of the pathology of those diseases and injuries in which physical therapy can be helpful in the optimum rehabilitation of the patient.

The curriculum is planned to serve the educational needs of students working towards the Bachelor of Science degree or towards the Certificate of Proficiency in Physical Therapy.

The Bachelor of Science degree is offered upon completion of the two-year course in physical therapy. Candidates for admission to this course must present a minimum of sixty semester hours in liberal arts.

The Certificate of Proficiency in Physical Therapy is offered upon the completion of the one-year course. Candidates for admission to this course must present one of the following qualifications:

- (a) Graduation from an approved school of nursing.
- (b) At least a Bachelor's degree from an accredited college or university.

Minimum standards for approved schools of physical therapy are set by the American Medical Association through the Council on Medical Education and Hospitals and by the American Physical Therapy Association.

Graduates of either the two-year course or the one-year course are eligible for admission to the examination of the American Registry of Physical Therapy Technicians and for membership in the American Physical Therapy Association.

ADMISSION REQUIREMENTS

Applicants for admission must be graduates of approved high schools and must satisfy *one* of the following requirements:

Candidates for the two-year course of study:

Two years or sixty semester hours of credit in the liberal arts, with 6 semester hours in biological science, 4 semester hours in physical science, and 6 semester hours in psychology.

(The Bachelor of Science degree with a major in Physical Therapy is awarded.)

Candidates for the one-year course of study:

(a) Graduation from an approved college with at least a Bachelor of Science or Bachelor of Arts degree with science requirements as follows:

8 semester hours in biological science

6 semester hours in physical science

10 semester hours in social science (of which 6 must be in psychology)

(b) Graduation from an approved school of nursing.

(The Certificate of Proficiency in Physical Therapy is awarded.)

ESTIMATED UNIVERSITY EXPENSES

Following is an itemized estimate of expenses of attendance in the courses in physical therapy:

<i>Expenses</i>	<i>Two-Year Course</i>	<i>One-Year Course</i>
Tuition	\$1200.00	\$680.00
University fees	40.00	25.00
Books, materials, equipment, uniforms	90.00	75.00
Health and hospital fee	40.00	20.00
Degree or Certificate application	20.00	10.00
<i>Total</i>	\$1390.00	\$810.00
<i>Living Expenses (academic year)</i>	<i>Average</i>	<i>Minimum</i>
Room	\$360	\$230
Board	330	330
Summer Clinical	125	100
<i>Total</i>	\$815	\$660

COURSE OF STUDY IN PHYSICAL THERAPY

An outline of the program of studies for each year of the course is given below. This course of study meets requirements of, and is approved by, the Council on Medical Education and Hospitals of the American Medical Association.

DEGREE COURSE

FIRST YEAR

Winter Session

		<i>Points</i>
<i>Anatomy 155</i>	Anatomy and physiology	3
<i>Physics 111</i>	Physics applied to physical medicine	2
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Ethics 39</i>	Ethics and institutional aspects of physical therapy	1
<i>Massage 3</i>	Theory and practice	2
<i>Kinesiology 105</i>	Applied anatomy and kinesiology	2
<i>Psychology 33</i>	Abnormal psychology	2
<i>Education 41R</i>	Introduction to records and case work	1
<i>Neuroanatomy 95</i>	Anatomy of the nervous system	1

15

Spring Session

<i>Radiation 10</i>	Theory and practice of heat application and radiation	2
<i>Hydrotherapy 18</i>	Theory and practice of hydrotherapy	1
<i>Orthopedics 136</i>	General survey of orthopedics	2
<i>Exercise 112</i>	Therapeutic exercise	3
<i>Clinical Instruction and Experience in Massage</i>		2
<i>Relaxation 144</i>	Theory and practice of relaxation	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Neurology 106</i>	Elementary neurology	2
<i>Swimming 8</i>	Elementary swimming	1
<i>Recreation 170</i>	Recreation techniques for the disabled	2

19

Summer Session

(Two months)

Clinical Practice	2
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SECOND YEAR

Winter Session

<i>P.T. Theory 13</i>	Theory and practice of electrotherapy, etc.	2
<i>Motor Disabilities 121</i>	Physical therapy techniques for motor disabilities	2
<i>Bandaging 17</i>	Bandaging and dressings	1
<i>Clinical Instruction and Experience in Therapeutic Exercise</i>		2
<i>Psychiatry 101</i>	Psychosomatic aspects of physical medicine	1
<i>Physiology 157</i>	Applied physiology	2
<i>Application 29</i>	Practical application of physical therapy	2
<i>Electives</i>		3

15

Spring Session

Points

<i>P.T. Theory 16</i>	Seminar	1
<i>Massage 104</i>	Advanced massage	1
<i>O.T. Theory 14</i>	Orientation to occupational therapy	1
<i>Application 30</i>	Practical application of physical therapy	3
<i>Rehabilitation 150</i>	Rehabilitation and acceptance of handicaps	2
<i>Speech 162</i>	Principles and practice of speech science	3
<i>General Clinical Experience and Clerkships</i>		2
<i>T.C. Biology 153b</i>	Muscles, bones, joints	1
<i>Electives</i>		2
		16

Summer Session
(One month Clinical)

<i>Application S130</i>	Clinical practice and clerkships	2
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CERTIFICATE COURSE

Winter Session

<i>Anatomy 155</i>	Anatomy and physiology	3
<i>Physics 111</i>	Physics applied to physical medicine	2
<i>Massage 3</i>	Theory and practice	2
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Ethics 39</i>	Ethics and institutional aspects of physical therapy	1
<i>P.T. Theory 13</i>	Theory and practice of electrotherapy, etc	2
<i>Neuroanatomy 95</i>	Anatomy of the nervous system	1
<i>Physiology 157</i>	Applied physiology	2
<i>Application 29</i>	Practical application of physical therapy, Part I	2
<i>Kinesiology 105</i>	Applied anatomy and kinesiology	2
<i>Bandaging 17</i>	Bandaging and dressing	1
		19

Spring Session

<i>Radiation 10</i>	Theory and practice of heat application and radiation	2
<i>Hydrotherapy 18</i>	Theory and practice of hydrotherapy	1
<i>Orthopedics 136</i>	General survey of orthopedics	2
<i>Exercise 112</i>	Therapeutic exercise	3
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Neurology 106</i>	Elementary neurology	2
<i>Application 30</i>	Practical application of physical therapy, Part II	3
<i>Relaxation 144</i>	Theory and practice of relaxation	2
<i>Rehabilitation 150</i>	Rehabilitation and acceptance of handicaps	2
<i>Swimming 8</i>	Elementary swimming	1
		20

Summer Session
(Three months Clinical)

<i>Application S140</i>	Clinical practice and clerkships	4
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HOSPITALS AFFILIATED FOR CLINICAL TRAINING

(Attendance concurrent with theoretical and technical work)

In addition, all students are required to spend a period during intersession in full-time clinical practice.

ASSOCIATION FOR THE AID OF CRIPPLED CHILDREN, New York, N. Y.

Mrs. Alice FitzGerald, *Educational Director*

BLYTHEDALE, Valhalla, N. Y.

Mrs. Ceil W. Sumergrad, *Superintendent*
Carroll Wardlaw, *Head Physical Therapist*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N. Y.

John S. Parke, *Executive Vice President*

Presbyterian Hospital

Mrs. Edith Hansen, R.N., *Head Physical Therapist*

Neurological Institute

Mary A. Cover, *Head Physical Therapist*

HOSPITAL FOR CHRONIC ILLNESS, Rocky Hill, Conn.

A.N. Creadick, M.D., *Medical Director*
Nila Kirkpatrick Covalt, M.D., *Chief of Physical Medicine and Rehabilitation*
Annette Wolter, *Supervisor of Physical Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N. Y.

Col. John N. Smith, Jr., *Director*
Blanche Talmud, *Supervising Therapist*

NEWINGTON HOME FOR CRIPPLED CHILDREN, Newington, Conn.

B. E. Foss, *Director*
Prudence M. Kuhrt, *Head Physical Therapist*

NEW YORK HOSPITAL, New York, N. Y.

Christian Hansson, M.D., *Director of Physical Medicine*
Margaret Valentine, *Head Physical Therapist*

NEW YORK POST-GRADUATE HOSPITAL, New York, N. Y.

William B. Talbot, M.D., *Superintendent*

NEW YORK SERVICE FOR ORTHOPEDICALLY HANDICAPPED, INC., New York, N. Y.

Mrs. Sarah Jane Kinoy, *Director*

Dorothy Richards, *Head Physical Therapist*

NEW YORK STATE REHABILITATION HOSPITAL, West Haverstraw, N. Y.

Herman E. Hillboc, M.D., *Commissioner (Department of Health, State of New York)*

A. J. Canning, M.D., *Director*

Margaret A. O'Neill, A.M., *Director, Department of Physical Therapy*

BRONX VETERANS HOSPITAL, New York, N. Y.

Harry Kessler, M.D., *Chief, Physical Medicine Rehabilitation Service*

Mabel C. Ryan, *Chief Physical Therapist*

NEW YORK REGIONAL OFFICE, VETERANS ADMINISTRATION, RAY CLINICS,
New York, N. Y.

Irving Tepperberg, M.D., *Acting Chief, Physical Medicine Rehabilitation Service*

G. DiNubila, *Chief Physical Therapist*

MARINE HOSPITAL, UNITED STATES PUBLIC HEALTH SERVICE, New York, N. Y.

Samuel M. Paley, M.D., *Director, Physical Medicine*

Esther Anderson, *Chief Physical Therapist*

OUTLINE OF COURSES

The University reserves the right to withdraw or modify these courses or to change the instructors as may seem wise.

NOTE: For additional courses open to students in physical therapy consult the Announcements of Teachers College and the School of General Studies.

FIRST YEAR

Winter Session

Anatomy 155—Anatomy and physiology. Lectures and laboratory. 3 points. Professors ELFTMAN and NOBACK.

For students in physical and occupational therapy. Provides the basic and related histology, anatomy, and physiology for understanding the human body, especially the muscle-joint-bone unit. Includes demonstration on the human cadaver.

Physics 111—Physics applied to physical medicine. 2 points. Mr. SJOBERG.

Basic kinetics, radiation, hydro-dynamics, and electricity as they apply to the practice of physical therapy.

Pathology 31—Elementary studies in pathology. 1 point. Dr. KING.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alterations of functions resulting from these influences.

Ethics 39—Ethics and institutional aspects of physical therapy. 1 point. Professor SNOW.

Lectures governing appropriate conduct of medical assistants in the routine of their work. Orientation of medical workers toward institutional contacts.

Massage 3—Theory and practice. 2 points. Miss CALLAHAN.

The theory and practice of massage with laboratory demonstrations and practice on patients.

Kinesiology 105—Applied anatomy and kinesiology. 2 points. Miss PINKERTON.

Topics include review of gross anatomy of skeletal and muscular systems, mechanics of bodily movement, and analysis of skills used in daily activities and in physical and occupational therapy.

Psychology 33—Abnormal psychology. 2 points. Dr. BURGEMEISTER.

This course describes the common mental maladjustments, undertaking to explain them in terms of general psychological principles. The social implications of abnormalities are emphasized.

Prerequisite: General psychology.

Education 41R—Introduction to records and case work. 1 point. Mrs. CARRICK.

Orientation in case work methods. Special emphasis is placed upon techniques and practice in reading the total record of the patient and in writing intelligent observational reports.

Neuroanatomy 95—Anatomy of the nervous system. 1 point. Dr. SCIARRA.

Anatomy of the nervous system of man, including: essentials of the structural unit, the cerebrospinal system and the autonomic system. Attention will be given to the gross divisions of the brain and spinal cord with particular emphasis on the controls affecting voluntary motion.

Spring Session

Radiation 10—Theory and practice of heat application and radiation. 2 points. Dr. SAFFORD.

A study of spectral radiation and the theory and technique of application of radiation of various types. Actual practice in various institutions.

Hydrotherapy 18—Theory and practice of hydrotherapy. 1 point. Miss HEBERT.

Instruction and demonstration of the indications and techniques of treatment. Collectively, the various hydrotherapeutic procedures represent a very valuable part of Physical Medicine practice. These applications have profound physiological effects on the blood circulation. This course concerns itself with physiology and technique and application of water as a therapeutic agent. A knowledge of the utilization of such universally available therapy is essential to good practice.

Orthopedics 136—Orthopedics. 2 points. Dr. THOMPSON.

Lectures and clinical presentations descriptive of orthopedic conditions; some discussion as to problems—personal, medical, surgical. Rehabilitation problems common to this group of patients.

Exercise 112—Therapeutic exercise. 2 or 3 points. Professor SNOW, Dr. HOBBERMAN, Misses PINKERTON and HEBERT.

Fundamentals of muscle reeducation; the application of directed movement as an accessory in the treatment of altered function; includes underwater techniques and practice in the treatment of crippled patients.

Relaxation 144—Lectures and laboratory. 2 points. Miss PINKERTON.

Methods and practice of relaxation with emphasis on (1) the therapist's efficiency at work so as to avoid or minimize fatigue, (2) the therapist's techniques for helping and guiding the patient in relaxation as treatment and in relaxing for further prescribed treatment.

Psychiatry 102—Elementary psychiatry. 2 points. Drs. CARTER and GLASER.

Etiology and symptomatology of the major and minor psychoses, including the psychoneuroses and their treatment. Lectures with clinical demonstrations.

Neurology 106—Clinical neurology. 2 points. Dr. GREENE.

Symptomatology and treatment in diseases of the brain, spinal cord, and peripheral nerves.

Swimming 8—Elementary swimming. 1 point. Dr. McCORMICK.

Consideration is given to the skills and methods of teaching swimming.

Recreation 170—Recreation techniques for the disabled. 2 points. Miss TALMUD.

Practical rehabilitation techniques exemplified through lecture, demonstration, and practice in recreation with a particular medical emphasis.

SECOND YEAR*Winter Session***Physical Therapy Theory 13—Theory and practice of electro-therapy and miscellaneous physical therapy applications and diagnosis aids. 3 points Professor SNOW; special lectures by Professor HOEFER, Drs. SAFFORD, HORWITZ, MOLDAVER, and HOBBERMAN; Miss HEBERT and Mrs. HANSEN.**

- (a) Techniques of application of electro-therapy.
- (b) Other miscellaneous physical therapy applications and diagnostic aids not otherwise provided for.
- (c) Intimate instruction in techniques of application of the various modalities of physical therapy with return demonstration by the student.

Motor Disabilities 121—Lectures and demonstrations. 2 points. Professor SNOW, Drs. GREENE, HOBBERMAN, and CASS, and Miss HENDIN.

A consideration of motor disabilities due to developmental abnormalities, disease, or injury to the central nervous system. Both upper and lower motor neuron affections will be considered. Techniques in the management of these patients with particular stress on the use of physical and occupational therapy in their rehabilitation.

Bandaging 17—Bandaging and dressing. 1 point. Miss HEBERT.

The techniques of bandaging, asepsis, handling of dressings, and bedside conduct.

Psychiatry 101—Psychosomatic aspects of physical medicine. 1 point. Dr. KELLEY.

A consideration of the effect of personality factors on sick individuals and a consideration of the problems that occur due to alteration of their psyche as a result of stress of illness.

Physiology 157—Aspects of human physiology. 2 points. Dr. CIZEK.

This course includes the physiology of the nervous system, of circulation, and of respiration. Emphasis is placed upon the physiology of exercise to meet the needs of the occupational therapy and physical therapy student. Lectures and laboratory demonstrations.

Application 29—Practical application of physical therapy in medical and surgical practice. Lectures and laboratory. 2 points Spring Session. Professor SNOW and associates.

This course gives the students a closer acquaintance with disease as it occurs in medical practice. Specialists discuss the problems in their fields of practice including particular pathology and they present the needs of physical therapy. This analysis is followed by prescription physical therapy to cover these special indications. There will be further clinical practice in hospitals.

*Spring Session***Massage 104—Advanced massage. 1 point. Dr. GUREWITSCH.**

Neurological Institute.

Lectures and demonstrations of massage in the treatment of medical entities.

Prerequisite: *Massage 3.*

O.T. Theory 14—Orientation to occupational therapy. 1 point. Miss FRANCISCUS.

General survey of the field. Theoretical principles as applied to major disability areas with particular emphasis of O.T. skills in the treatment of physical disabilities.

Application 30—Practical application of physical therapy in medical and surgical practice. Lectures and laboratory. 3 points Spring Session. Professor SNOW and associates.

Continuation of *Application 29.*

Rehabilitation 150—Rehabilitation and acceptance of handicaps. 2 points. Miss SHELDON.

The readjustment physically and psychologically of the handicapped patient to meet the progressive problems of life; a consideration of the agencies for assisting handicapped individuals.

P.T. Theory 16—Seminar. 1 point. Misses PINKERTON and CALLAHAN.

Lecture and discussion of topics of importance to the therapist in practice.

T.C. Biology 153b—Muscles, bones, joints. 1 point. Miss LEAVELL.

For students who wish additional study on bones, joints, and muscles and experience in handling laboratory materials.

Speech 162—Principles and practice of speech science. 3 points. Dr. CASS.

For students in physical and occupational therapy. Covers the basic anatomy and physiology underlying speech science. Consideration will be given to the pathology of speech abnormalities and the therapeutic approach for their correction.

Summer Session

Application S130—Clinical practice. 2 points. Clinical Supervisors.

Instruction, return demonstration, and general practice, for one month in affiliated hospitals, with special emphasis on underwater exercise, methods of rehabilitation and observation, and practice in muscle testing.

Application S140—Clinical Practice. 4 points. Clinical Supervisors.

General clinical practice in affiliated hospitals, on regular work-day basis, for two months. During an additional month students receive training in underwater exercise, methods of rehabilitation and observation, and practice in muscle testing.

(Open only to students pursuing the Certificate Course in the advanced-standing group.)

Training Courses in
Occupational Therapy

ADMINISTRATIVE OFFICERS

- WILLIAM BENHAM SNOW, M.D. *Associate Professor of Physical Medicine,
Faculty of Medicine; Director of Physical and
Occupational Therapy, Columbia-Presbyterian Medical Center*
- MARJORIE FISH, A.B., O.T.R. *Director of Training Courses
in Occupational Therapy*
- MARIE LOUISE FRANCISCUS, B.S., O.T.R. *Associate Director of Training
Courses in Occupational Therapy*

OFFICERS OF INSTRUCTION OCCUPATIONAL THERAPY

- MARGUERITE ABBOTT, O.T.R. *Occupational Therapy Applied to Physical Injuries*
B.S., Tufts; Graduate, Boston School of Occupational Therapy.
Instructor in Training Courses in Occupational Therapy.
- MORTON ABLER *Pottery*
B.F.A., Alfred; A.M., Columbia. Instructor in Fine and Industrial Arts in Teachers College.
- EDITH H. BROKAW, O.T.R. *Design, Leather, Minor Crafts,
Needlecrafts, Weaving*
Graduate, Philadelphia School of Occupational Therapy.
Instructor in Training Courses in Occupational Therapy.
- BESSIE B. BURGEMEISTER *Abnormal Psychology*
A.B., A.M., Ph.D., Columbia.
Research Psychologist, Department of Neurology.
Research Assistant in Neurology.
- SIDNEY CARTER *Psychiatry*
A.B., Dartmouth; M.D., Boston University.
Assistant Professor of Neurology.
- GRAHAM CLARK *Eye Conditions*
B.S., M.D., Virginia.
Instructor in Ophthalmology.
- HERBERT O. ELFTMAN *Anatomy*
A.B., A.M., California; Ph.D., Columbia.
Associate Professor of Anatomy.
- MARJORIE FISH, O.T.R. *Theory of Occupational Therapy, Rehabilitation,
Clerkships in Occupational Therapy*
A.B., Swarthmore; Graduate, Boston School of Occupational Therapy.
Director, Training Courses in Occupational Therapy.
- MARIE LOUISE FRANCISCUS, O.T.R. *Principles and Practice of Occupational Therapy,
Theory of Occupational Therapy, Clerkships in Occupational Therapy*
B.S., Ohio State; Graduate, Philadelphia School of Occupational Therapy.
Associate Director, Training Courses in Occupational Therapy.
- EDWARD J. FREY *Printing*
Lecturer, School of General Studies.
- GILBERT H. GLASER *Psychiatry*
A.B., M.D., Columbia.
Instructor in Neurology.

- JUSTIN L. GREENE *Motor Disabilities, Neurology*
A.B., Columbia; M.D., Paris.
Instructor in Neurology.
- WILLIE H. HINELY *Woodwork, Metalwork and Jewelry*
B.S., Georgia Teachers College; A.M., Columbia.
Instructor in Fine and Industrial Arts in Teachers College.
- MORTON HOBERMAN *Motor Disabilities, Therapeutic Exercise*
B.S., New York University; M.B., M.D., Wayne.
Instructor in Medicine.
- EDWARD L. HOWES *General Surgery*
B.S., M.D., Yale; M.S., Med.Sc.D., Columbia.
Associate Clinical Professor of Surgery.
- DONALD W. KING *Pathology*
A.B., M.D., Syracuse.
Instructor in Pathology.
- LUTIA CLEMSON LEAVELL *Biology*
B.S., A.M., M.S., Columbia.
Instructor in Nursing Education in Teachers College.
- MELVIN LOOS *Printing*
Lecturer in Graphic Arts in the School of General Studies.
Manager, Printing Office, Columbia University Press.
- CHARLES ROBERT NOBACK *Anatomy*
B.S., Cornell; M.S., New York University; Ph.D., Minnesota.
Assistant Professor of Anatomy.
- JOHN OPPER *Design*
B.S., Western Reserve; A.M., Columbia.
Instructor in Fine and Industrial Arts in Teachers College.
- FLOY PINKERTON, R.P.T. *Kinesiology, Therapeutic Exercise*
B.S., Stephen F. Austin State Teachers College; A.M., Columbia.
Director, Training Courses in Physical Therapy.
- DANIEL SCIARRA *Neuroanatomy, Psychiatry*
A.B., M.D., Harvard.
Associate in Neurology.
- MARTIN DE FOREST SMITH *General Medicine*
A.B., M.D., Columbia.
Associate Clinical Professor of Medicine.
- WILLIAM BENHAM SNOW *Therapeutic Exercise, Ethics,
Motor Disabilities*
M.D., Long Island College of Medicine.
Director, Physical and Occupational Therapy, Columbia-Presbyterian Medical Center.
Associate Professor of Physical Medicine.
- BLANCHE TALMUD *Recreation*
B.S., New York University; Graduate, School of Physical Therapy, New York University.
Lecturer in Physical Therapy.
- WALTER A. L. THOMPSON *Orthopedics*
M.D., Yale.
Assistant Professor of Clinical Orthopedic Surgery.
- SONYA EISENMENGER WEBER *Therapeutic Exercise*
A.B., Vienna; D.Sc., Eastern Reserve.
Instructor in Physical Medicine.

- PAUL E. WILSON *Pediatrics*
 A.B., Cornell; Sc.D., M.D., Johns Hopkins.
 Instructor in Pediatrics.

SPECIAL LECTURERS

- RITA AUER, O.T.R. *Clerkship in Occupational Therapy,
 Hospital Orientation*
 B.S. in Occupational Therapy, Columbia.
 Occupational Therapist, New York State Psychiatric Institute and Hospital.
- ELSIE G. BALMER, O.T.R. *Clerkship in Occupational Therapy,
 Hospital Orientation*
 Graduate, Boston School of Occupational Therapy.
 Occupational Therapist, New York State Psychiatric Institute and Hospital.
- MARGARD BARNARD *Public Health*
 A.B., Smith; M.D., Cornell; Ph.D., Johns Hopkins.
 Director, District Health Administration, City of New York.
- ORRIS-BELL BATES, O.T.R. *Clerkship in Occupational Therapy,
 Hospital Orientation*
 A.B., Mills.
 Occupational Therapist, New York State Psychiatric Institute and Hospital.
- HELEN BECHT *Rehabilitation*
 A.B., Cincinnati; A.M., Columbia.
 Field Consultant, Rehabilitation Service, National Tuberculosis Association.
- LUCILLE H. BLUM *Child Development*
 B.S., A.M., Ph.D., Columbia.
 Psychological Consultant, Cerebral Palsy Preschool Center, Lenox Hill Hospital.
- MARY LILLIAN BURKE, O.T.R. *Clerkship in Occupational Therapy,
 Hospital Orientation*
 Graduate, Washington, D. C., Normal.
 Occupational Therapist, New York State Psychiatric Institute and Hospital.
- MARION CASS *Motor Disabilities*
 A.B., University of Nebraska; A.M., Ed.D., Columbia.
 Associated with Winthrop M. Phelps, M.D., Baltimore.
- CECILE L. CROTTY *Clerkship in Occupational Therapy*
 Diploma, Posse-Nissen College of Physical Education.
 Recreation Instructor, New York State Psychiatric Institute and Hospital.
- FREDERIC G. ELTON *Rehabilitation*
 Diploma, Massachusetts State Normal School, Massachusetts Institute of Technology.
 Chief District Supervisor, Division of Vocational Rehabilitation, New York State Department of Education.
- FLORENCE C. HOUSE *Bookbinding, Weaving*
 B.S., A.M., Columbia.
- SHULAMITH KASTEIN *Therapeutic Exercise*
 Speech Pathologist, Department of Audiology and Phonology, Columbia-Presbyterian Medical Center.
- EDITH KATZ *Rehabilitation*
 Vocational Counselor, New York League for the Hard of Hearing.
- DOREEN POLLACK *Therapeutic Exercise*
 Speech and Hearing Therapist, Department of Audiology and Phonology, Columbia-Presbyterian Medical Center.

- MARY JANE PRESTON *Recreation*
 Graduate in Physical Education, Michigan State Normal.
 Recreation Instructor, Pilgrim State Hospital, West Brentwood, N. Y.
- A. WILLIAM REGGIO *Rehabilitation*
 A.B., M.D., Harvard.
 Medical Director, United States Public Health Service (Retired).
- DORIS RICHARDSON, O.T.R. *Clerkship in Occupational Therapy,
 Hospital Orientation*
 B.S., Virginia State; A.M., Certificate in Occupational Therapy, Columbia.
 Occupational Therapist, Columbia-Presbyterian Medical Center.
- CHARLOTTE RITTER, O.T.R. *Clerkship in Occupational Therapy,
 Hospital Orientation*
 Graduate, Moore Institute of Art, Science, and Industry; Graduate, Philadelphia School of Occupational Therapy.
 Occupational Therapist, Columbia-Presbyterian Medical Center.
- VIRGINIA SCULLIN, O.T.R. *Principles and Practice of Occupational Therapy*
 Graduate, Philadelphia School of Industrial Arts.
 Director of Occupational Therapy, New York State Department of Mental Hygiene.
- CAROL SMITH, O.T.R. *Clerkship in Occupational Therapy,
 Hospital Orientation*
 Graduate, Boston School of Occupational Therapy.
 Director, Occupational Therapy Department, Institute for the Crippled and Disabled.
- ALICE R. TREI, O.T.R. *Clerkship in Occupational Therapy,
 Hospital Orientation*
 Certificate in Occupational Therapy, Columbia.
 Occupational Therapist, New York State Psychiatric Institute and Hospital.
- MARGUERITE VAUGHAN, O.T.R. . . . *Principles and Practice of Occupational Therapy,
 Clerkship in Occupational Therapy, Hospital Orientation*
 A.B., Randolph-Macon Woman's College; A.M., Columbia.
 Senior Occupational Therapist, New York State Psychiatric Institute and Hospital.
- THELMA L. WELLERSON, O.T.R. *Clerkship in Occupational Therapy,
 Theory of Occupational Therapy*
 B.S. in Occupational Therapy, Columbia.
 Occupational Therapist, Columbia-Presbyterian Medical Center.
- HELEN P. WHITE, O.T.R. *Principles and Practice of Occupational Therapy,
 Clerkships in Occupational Therapy, Hospital Orientation*
 A.B., University of Michigan; A.M., New York University; Graduate, Philadelphia School of Occupational Therapy.
 Director, Occupational Therapy, Columbia-Presbyterian Medical Center.

OCCUPATIONAL THERAPY, often referred to as the "work cure," consists of the practice of remedial treatment in the form of supervised activity for persons injured in body or mind by accident or disease. Creative and manual arts, recreational activities, educational pursuits, and pre-industrial training are the concern of the therapist participating in modern occupational therapy programs today as they help toward the physical, mental, social, and economic adjustment of the patient.

Occupational therapy was first used on a wide scale as an aid to recovery and a guide to vocational rehabilitation of servicemen wounded or disabled in World War I. Recognition of its value has expanded steadily in the past thirty years and with its growth has come the increasing need for more trained therapists. The functional rehabilitation of persons injured in war and civilian life is a pressing need. Occupational therapy is filling an important role in the postwar program.

A Bachelor of Science degree in occupational therapy is offered upon completion of the two-year training course. Candidates for admission to this course must present a minimum of sixty liberal arts credits.

A Certificate in Occupational Therapy is awarded to students who already have a Bachelor's degree upon completion of seventeen months of full-time training as outlined.

The curriculum consists of classroom work devoted to courses in the biological, social, and clinical sciences providing a scientific, medical, and theoretical background together with courses in the techniques of creative arts, recreational therapy, educational therapy, and prevocational training as they enter into the actual practice of occupational therapy. In addition to theoretical classroom instruction, students observe treatment procedures in the Occupational Therapy units of the Columbia-Presbyterian Medical Center, the Institute for the Crippled and Disabled, and the New York State Psychiatric Institute and Hospital. A program of student clerkships in conjunction with the same institutions permits students to study treatment problems of specific diagnostic classifications as they are introduced in the medical lecture series, by means of the case study and laboratory method. There is a nine-month period of clinical practice in teaching hospitals under supervision of the University. A close relationship with the Departments of Fine and Industrial Arts, Nursing Education, and Health and Physical Education in Teachers College makes available to the student unusual clinical, practical, and educational facilities.

The courses described in this Announcement meet the requirements set forth by the American Occupational Therapy Association and by the Council on Medical Education and Hospitals of the American Medical Association, as published in their *Essentials of an Acceptable School of Occupational Therapy*, which regulates the standards by which schools are accredited. Graduates of both the Degree course and the Certificate course are eligible for the examination leading to admission to the Directory of Registered Occupational Therapists maintained by the American Occupational Therapy Association. This examination is held throughout the country at specified periods during the year. Admission to the Directory is the certification of a therapist to practice.

ADMISSION REQUIREMENTS

Students will be admitted in September. Applicants for admission must be between the ages of nineteen and thirty-five years, must be graduates of approved high schools, and must satisfy one of the following requirements:

- A. *Candidates for the Degree.* Students who have satisfactorily completed at least two years of work in a college approved by Columbia University may register for the regular course to be completed in two years (twenty-five calendar months). The two years in liberal arts required for admission on this basis, sixty semester credits, should include a year of college science, at least one semester in general psychology, and one semester in sociology.
- B. *Candidates for the Certificate.* Students who hold a baccalaureate degree acceptable to Columbia University may register on advanced standing, completing the course in seventeen months—eight months theoretical training and nine months in clinical practice. Courses in natural sciences, including chemistry or biology, psychology, and sociology, should be included in the college courses.

NOTE: Graduates with accredited professional training in fields closely related to physical medicine, such as nurses, may be admitted to the advanced standing program.

ADMISSION PROCEDURE

Forms to be used in making application for admission may be obtained by writing to the Occupational Therapy office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y. Such forms should be filed several months in advance of the time at which students wish to begin their studies.

Candidates for the professional courses must be between nineteen and thirty-five years of age. Demands made on the physical endurance and emotional stamina of the therapist require a record of good health.

While occupational therapy is a profession of interest primarily to women, there are certain positions in the field for which it is desirable to have male therapists. For this reason a limited number of men may be admitted to the professional courses, depending upon individual qualifications.

ESTIMATED EXPENSES

Following is an itemized estimate of expenses of attendance in the courses in occupational therapy.

<i>University Expenses</i>	<i>Two-Year Course</i>	<i>One-Year Course</i>
Tuition	\$1200	\$600
University fees	50	30
Books, materials, equipment, uniforms	240	140
Health and hospital fee	40	20
Degree or Certificate application	20	10
<i>Total</i>	\$1,550	\$800

<i>Living Expenses (academic year)</i>	<i>Average</i>	<i>Minimum</i>
Room	\$360	\$230
Board	330	330
<i>Total</i>	\$690	\$560

Fees for materials and equipment in studio classes are payable at the second meeting of the class and are subject to changes in accord with market prices.

During clinical training students spend approximately four months of the period in residence in hospitals where they receive full maintenance (room, board, and laundry). In some instances a maintenance arrangement is possible for a longer period of time. There is a registration charge only during affiliation.

There will be nominal transportation expenses for students in hospital affiliations outside of the local area.

COURSE OF STUDY IN OCCUPATIONAL THERAPY

An outline of the program of studies for each year of the course is given below. In the Degree course the first two years are spent on the campus in theoretical and technical study, followed by nine months devoted to clinical practice in mental, general, children's, orthopedic, and tuberculosis services or hospitals. The summer periods are utilized for required clinical practice, thereby enabling the student to complete the full course in approximately two years.

Certificate students completing the course in seventeen months carry a program combining first-year and second-year courses during the one year spent on the campus, followed by nine months devoted to clinical practice.

DEGREE COURSE

FIRST YEAR

Winter Session

		<i>Points</i>
<i>O.T. Theory 11</i>	Elementary theory of occupational therapy	2
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Psychology 33</i>	Abnormal psychology	2
<i>Ethics 39</i>	Ethics	1
<i>Physiology 55</i>	Basic human physiology	2
<i>Neuroanatomy 95</i>	Anatomy of the nervous system	1
<i>Anatomy 155</i>	Anatomy	3
<i>O.T. Fine Arts 31</i>	Elementary weaving	2
<i>O.T. Fine Arts 41</i>	Bookbinding	2
<i>O.T. Fine Arts 163</i>	Elementary woodwork	2
		18

Spring Session

<i>O.T. Theory 12</i>	Theory of occupational therapy	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Neurology 106</i>	Clinical neurology	2
<i>Recreation 170</i>	Recreation techniques for the disabled	2
<i>T.C. Biology 153b</i>	Muscles, bones, and joints	1
<i>T.C. Fine Arts 101T</i>	Fundamentals of design	2
<i>O.T. Fine Arts 12</i>	Needlecrafts	3
<i>O.T. Fine Arts 14</i>	Minor crafts	3
<i>O.T. Clerkship 2</i>	Psychiatric	2
		19

June, July, and August: Clinical practice in psychiatry

SECOND YEAR

Winter Session

Points

<i>O.T. Theory</i> 21	Advanced theory of occupational therapy	2
<i>Psychology</i> 45	Child development	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>Kinesiology</i> 105	Practical and applied kinesiology	2
<i>Motor Disabilities</i> 121	Techniques for motor disabilities	2
<i>O.T. Fine Arts</i> 27	Pottery	2
<i>O.T. Fine Arts</i> 105	Interpretive design	2
<i>O.T. Fine Arts</i> 165	Advanced woodwork	2
<i>O.T. Clerkship</i> 3	Medical and pediatric	2

18

Spring Session

<i>O.T. Theory</i> 24	Application to physical injuries	2
<i>O.T.</i> 118	Rehabilitation	2
<i>Clinical Subjects</i> 102	Orthopedics, pediatrics, public health	2
<i>Exercise</i> 112	Therapeutic exercise	2
<i>O.T. Graphic Arts</i> 1R	Art of hand printing	2
<i>O.T. Fine Arts</i> 18	Leather	2
<i>O.T. Fine Arts</i> 32	Advanced weaving	2
<i>O.T. Fine Arts</i> 168	Metalwork and jewelry	2
<i>O.T. Clerkship</i> 4	Physical disabilities	2

18

July-January: Six months of clinical practice in specified areas of service

CERTIFICATE COURSE

Winter Session

<i>O.T. Theory</i> 11	Elementary theory of occupational therapy	2
<i>Physiology</i> 55	Basic human physiology	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>Kinesiology</i> 105	Practical and applied kinesiology	2
<i>Anatomy</i> 155	Anatomy	3
<i>O.T. Fine Arts</i> 15	Minor crafts and needlecrafts	3
<i>O.T. Fine Arts</i> 17	Leather	1
<i>O.T. Fine Arts</i> 27	Pottery	2
<i>O.T. Fine Arts</i> 167	Woodwork	2

19

Spring Session

<i>O.T. Theory</i> 12	Theory of occupational therapy	2
<i>O.T. Theory</i> 24	Application to physical injuries	2
<i>O.T.</i> 118	Rehabilitation	2
<i>Clinical Subjects</i> 102	Orthopedics, pediatrics, public health	2
<i>Psychiatry</i> 102	Elementary psychiatry	2

		<i>Points</i>
<i>Neurology 106</i>	Clinical neurology	2
<i>O.T. Graphic Arts 1R</i>	Art of hand printing	1
<i>O.T. Fine Arts 34</i>	Weaving	2
<i>O.T. Fine Arts 106</i>	Interpretive design	2
<i>O.T. Fine Arts 168</i>	Metalwork and jewelry	2

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Attendance at a weekly seminar is required of all Certificate students during the Winter and Spring Sessions. Discussions in this seminar are concerned with advanced theory and principles and practice of occupational therapy.

July–April: Nine months of clinical practice in specified areas of service

HOSPITALS AND AGENCIES AFFILIATED FOR CLINICAL TRAINING

The nine months of clinical training consist of full-time practical experience in well-organized and carefully supervised Occupational Therapy Departments under the immediate direction of registered occupational therapists. Clinical training shall be completed within one year following termination of academic work. During this period students attend lectures, clinics, staff meetings, and orientation in related treatment departments, conduct special case studies, and obtain practical experience in special therapeutics, such as physical education, educational therapy, and prevocational therapy.

THE ASSOCIATION FOR THE AID OF CRIPPLED CHILDREN, NEW YORK, N. Y.

Mr. Leonard W. Mayo, *Director*
Mrs. Alice Fitzgerald, R.N., *Associate Director*
Ellen M. Covell, R.N., *Educational Director*
Mrs. Eleanor M. Frome, O.T.R., *Occupational Therapist*

BONNIE BURN SANATORIUM, Scotch Plains, N. J.

John E. Runnells, M.D., *Superintendent*
Miss Grace Cassidy, O.T.R., *Director of Occupational Therapy*

BRATTLEBORO RETREAT, Brattleboro, Vermont

J. Butler Tompkins, M.D., *Superintendent*
Miss Hope Severance, O.T.R., *Director of Occupational Therapy*

THE CHILDREN'S HOSPITAL, Buffalo, N. Y.

Moir P. Tanner, *Superintendent*
Miss Edith Ann Myers, O.T.R., *Director of Occupational Therapy*

CHILDREN'S REHABILITATION INSTITUTE, Cockeysville, Maryland

Winthrop M. Phelps, M.D., *Medical Director*
Miss Ruth Brunyate, O.T.R., *Director of Occupational Therapy*

THE CLEVELAND REHABILITATION CENTER, Cleveland, Ohio

Miss Belle Greve, *Director*
Miss Rachael Martiny, O.T.R., *Supervisor of Occupational Therapy*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N. Y.

John S. Parke, *Executive Vice President*
Mrs. Helen P. White, O.T.R., *Chief Occupational Therapist*

COMMUNITY WORKSHOP, Providence, R.I.

Mrs. Iris W. Booth, *Executive Secretary*
Miss H. Elsbeth Harrison, O.T.R., *Director of Occupational Therapy*

CONNECTICUT STATE HOSPITAL, Middletown, Conn.

Edgar C. Yerbury, M.D., *Superintendent*Mrs. Alice M. Rogers, O.T.R., *Supervisor of Occupational Therapy*

EMORY UNIVERSITY HOSPITAL, Atlanta, Georgia

Service Guild Curative Workshop

Robert L. Bennet, M.D., *Medical Director*Miss Martha Schnebly, O.T.R., *Director of Occupational Therapy*

FAIRFIELD STATE HOSPITAL, Newtown, Conn.

William F. Green, M.D., *Superintendent*Miss Bertha J. Piper, O.T.R., *Director of Occupational Therapy*

GALLINGER MUNICIPAL HOSPITAL, Washington, D. C.

Crippled Children's Clinic

Alvin R. Sweeney, M.D., *Superintendent*Mrs Helen N. Cromartie, O.T.R., *Director of Occupational Therapy*

GERMANTOWN DISPENSARY AND HOSPITAL, Philadelphia, Penna.

W. T. Sherman Thorndike, M.D., *Managing Director*Miss Alice Letchworth, O.T.R., *Director of Occupational Therapy*

HERMANN M. BIGGS MEMORIAL HOSPITAL, Ithaca, N. Y.

N. Stanley Lincoln, M.D., *Director*Miss Claudia Carner, O.T.R., *Director of Occupational Therapy*

HOSPITAL FOR SPECIAL SURGERY, New York, N. Y.

F. Wilson Keller, *Director*Miss Doris Nichols, O.T.R., *Director of Occupational Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N. Y.

Colonel John N. Smith, Jr., *Director*Miss Carol Smith, O.T.R., *Director of Occupational Therapy*

MONTEFIORE HOSPITAL—COUNTRY SANATORIUM, Bedford Hills, N. Y.

Arthur Eisenberg, *Rehabilitation Executive*Mrs. Dorothy Sebesta, O.T.R., *Chief Occupational Therapist*

MOUNT MORRIS TUBERCULOSIS HOSPITAL, Mount Morris, N. Y.

Arthur M. Stokes, M.D., *Director*Mrs. Bertha Skov, O.T.R., *Director of Occupational Therapy*

NEW YORK CITY DEPARTMENT OF HOSPITALS

Bellevue Hospital

Miss Helen C. Mathias, O.T.R., *Supervisor of Occupational Therapy*

COLUMBIA UNIVERSITY

City Home for the Blind

Miss Grace Hildenbrand, O.T.R., *Supervisor of Occupational Therapy*

City Hospital

Mrs. Frances O'Brien, O.T.R., *Supervisor of Occupational Therapy*

Goldwater Memorial Hospital

Miss Frances E. Heess, O.T.R., *Supervisor of Occupational Therapy*

Sea View Hospital

Miss Dorothy Hegewish, O.T.R., *Acting Supervisor of Occupational Therapy*

Triboro Hospital

Miss Gertrude Wait, O.T.R., *Supervisor of Occupational Therapy*

NEW YORK HOSPITAL, New York, N. Y.

Children's Clinic

S. Z. Levine, M.D., *Pediatrician in Chief*

Miss Evelyn Wolff, O.T.R., *Director of Occupational Therapy*

Payne Whitney Psychiatric Clinic

Oskar Diethelm, M.D., *Psychiatrist in Charge*

Miss Mildred Spargo, O.T.R., *Director of Occupational Therapy*

NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE

Miss Virginia M. Scullin, O.T.R., *Director of Occupational Therapy*

Pilgrim State Hospital, Brentwood, L. I.

Harry J. Worthing, M.D., *Senior Director*

Miss Helen Hedges, O.T.R., *Supervisor of Occupational Therapy*

New York State Psychiatric Institute and Hospital, New York, N. Y.

Nolan D. C. Lewis, M.D., *Director*

Miss Marguerite Vaughan, O.T.R., *Senior Occupational Therapist*

NEW JERSEY STATE HOSPITAL, Trenton, N. J.

Harold S. Magee, M.D., *Medical Director*

Miss Naida Ackley, O.T.R., *Director of Occupational Therapy*

NIAGARA SANATORIUM, Lockport, N. Y.

Arthur N. Aitken, M.D., *Superintendent*

Mrs. Charlotte Briggs, O.T.R., *Director of Occupational Therapy and Rehabilitation*

New York State Psychiatric Institute and Hospital, New York, N. Y.

Austin J. Canning, M.D., *Director*

Miss Viola W. Svensson, O.T.R., *Director of Occupational Therapy*

REHABILITATION CENTER, LIBERTY MUTUAL INSURANCE CO., Boston, Mass.

Stanwood L. Hanson, *Director of Rehabilitation*

Miss Elizabeth F. Shepard, O.T.R., *Director of Occupational Therapy*

SHEPPARD AND ENOCH PRATT HOSPITAL, Towson, Maryland

Harry M. Murdock, M.D., *Superintendent*

Mrs. Marshall Price, O.T.R., *Director of Occupational Therapy*

VETERANS ADMINISTRATION HOSPITALS

Veterans Administration Hospital, Bronx, N.Y.

Arthur S. Abramson, M.D., *Chief, Physical Medicine Rehabilitation Service*

Miss Ruth Rumsey, O.T.R., *Chief Occupational Therapist*

OUTLINE OF COURSES

The University reserves the right to withdraw or modify these courses or to change the instructors as may seem wise.

NOTE.—For electives and additional courses open to students in occupational therapy, consult the Announcements of Teachers College and the School of General Studies.

DEGREE COURSE

FIRST YEAR

Winter Session

***Occupational Therapy 11**—Theory of occupational therapy. 2 points. Miss FRANCISCUS and special lecturers.

A general survey of the field. Correlation of theoretical principles with practical application. History and development of occupational therapy with special references to present uses and techniques. Supplementary reading and reports. Orientation visits to hospital services.

Pathology 31—Elementary studies in pathology. 1 point. Dr. KING.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alteration of function resulting from these influences.

Psychology 33—Abnormal psychology. 2 points. Dr. BURGEMEISTER.

This course describes the common mental maladjustments, undertaking to explain them in terms of general principles. The social implications of abnormalities are explained.

Prerequisite: General psychology.

Ethics 39—Ethics and institutional aspects of physical medicine. 1 point. Professor SNOW.

Lectures governing appropriate conduct of medical assistants in the routine of their work. Orientation of medical workers toward institutional contacts.

***Physiology 55**—Basic human physiology. 2 points. Instructor to be announced.

The dynamics of human processes, stressing the interrelationships of the various bodily systems.

Neuroanatomy 95—Anatomy of the nervous system. 1 point. Dr. SCIARRA.

The anatomy of the nervous system of man, including: the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

***Anatomy 155**—Human anatomy. 3 points. Professors ELFTMAN and NOBACK.

This course provides the basic and related histology, anatomy, and physiology for understanding the human body, especially the muscle-joint-bone unit. It includes demonstration on the human cadaver.

O.T. Fine Arts 31—Elementary weaving. 2 points. Miss BROKAW.

Problems include the use of small appliances such as cards, inkle looms, and rigid string heddle looms. Experimenting with unusual as well as standard yarns for texture and color. Plain weaving, simple harness-controlled patterns and standard weaves. Learning the mechanism and setting up of the loom, as well as the making of patterns and reading and writing of drafts. A museum trip.

Materials charge.

* Also a Certificate course.

O.T. Fine Arts 41—Bookbinding. 2 points. Miss HOUSE.

Instruction in the basic processes of book and magazine binding, pamphlets, portfolios, and book repair. Decorative paper, cloth, and leather bindings. Problems of materials and costs are considered. Materials charge.

O.T. Fine Arts 163—Elementary woodwork. 2 points. Miss BROKAW.

This course is designed to orient the student to the fundamentals of woodworking. By the making of small, simple projects, the student is given the opportunity of identifying the hand tools and learning the correct use and care of them. Good design, careful workmanship, and strong construction are stressed.

*Spring Session****Occupational Therapy 12—Theory of occupational therapy. 2 points. Miss FRANCISCUS and special lecturers.**

Application in the major medical fields. Professional and hospital ethics and etiquette. Supplementary reading and reports. Field visits.

***Psychiatry 102—Elementary psychiatry. 2 points. Professor CARTER and Drs. GLASER and SCIARRA.**

Etiology and symptomatology of the major and minor psychoses including the psychoneuroses and their treatment. Lectures with clinical demonstrations.

Prerequisite: *Psychology 33* or an equivalent.

***Neurology 106—Clinical neurology. 2 points. Dr. GREENE.**

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerve.

Prerequisite: *Psychology 33* or an equivalent.

Recreation 170—Rehabilitation techniques for the disabled. 2 points. Miss TALMUD and Miss PRESTON.

Practical rehabilitation techniques exemplified through lecture, demonstration, and practice in recreation with particular medical emphasis.

T.C. Biology 153b—Muscles, bones, and joints. 1 point. Miss LEAVELL.

For students who wish additional study on bones, joints, and muscles and experience in handling laboratory materials.

T.C. Fine Arts 101T—Fundamentals of design. 2 points. Mr. OPPER.

The fundamental principles of design and their interrelations are studied through experiences in two and three dimensional designing. Practice in decorative and abstract design for textiles, posters, ceramics, and other art forms. Museum and store visits, lectures, readings, and discussions.

Materials charge.

O.T. Fine Arts 12—Needlecrafts. 3 points. Miss BROKAW.

The course includes clothing construction, hand sewing, and various forms of embroidery and allied needlecrafts (knitting, crocheting, and tatting). Care and use of the sewing machine, pattern alterations, the principles of upholstering, slip covering, and drapery making. Hospital projects and the use of needlecrafts for prevocational training are stressed.

Students provide materials.

OT. Fine Arts 14—Minor crafts. 3 points. Miss BROKAW.

A course in various small crafts (cord knotting, netting, braiding, rugmaking, chair seating, plastics, chip carving, and fly-tying). Emphasis is placed on basic techniques and their use in the practice of occupational therapy. One museum visit.

Materials charge.

* Also a Certificate course.

O.T. Clerkship 2—Psychiatric. 2 points. Miss FRANCISCUS (coordinator).

Correlation of instruction in abnormal psychology, psychiatry, and occupational therapy theory by assigned patient work-ups in occupational therapy units. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion. Required written reports and field trips.

SECOND YEAR*Winter Session***Occupational Therapy 21—Advanced theory of occupational therapy. 2 points. Miss FISH and special lecturers.**

A review and advanced study of theory and techniques in the application of occupational therapy in the various medical fields: psychiatry, tuberculosis, pediatrics, general medicine and surgery, orthopedics, cardiology, and blind and deaf. Supplementary reading and reports. Field visits.

Psychology 45—Child development. 2 points. Dr. BLUM.

The development of children from birth to maturity. Mental, motor, social, and emotional development at various periods of growth. Consideration of the practical implications of the development and characteristics of children at various age levels with respect to the exceptional child.

***Clinical Subjects 101—General medicine and surgery. 2 points.**

General Medicine. Professor SMITH.

A brief outline of the etiology of disease and the medical pathology of the various systems.

General Surgery. Professor HOWES.

A consideration of the manifestations, complications, and convalescence in medical and surgical conditions for which occupational therapy is prescribed. Clinical lectures and case demonstrations.

***Kinesiology 105—Applied anatomy and kinesiology. 2 points. Miss PINKERTON.**

Topics include relief of gross anatomy of skeletal and muscular systems, mechanics of bodily movement, and analysis of skills used in daily activities and in physical and occupational therapy.

Motor Disabilities 121—Theory and techniques for motor disabilities. 2 points. Professor SNOW, Drs. GREENE and HOBERMAN, and staff.

A consideration of motor disabilities due to developmental abnormalities or disease or injury to the central nervous system. Both upper and lower motor neuron affections will be considered. Techniques in the management of these patients with particular stress on the use of physical and occupational therapy in their rehabilitation.

O.T. Fine Arts 27—Pottery. 2 points. Instructor to be announced.

An introduction to the vast possibilities and methods of using clay to create functional pottery with coils, with the potter's wheel, and by casting. Mold making methods of decorating and glazing and firing of kilns are studied for practical use in teaching.

Materials charge.

O.T. Fine Arts 105-106—Interpretive design. 2 points. Miss BROKAW.

A course in which the principles of design are applied to media used in occupational therapy. Experience in certain art materials is given by work in block printing, stenciling, metal tooling, silk screening, and paper crafts. One museum visit.

Materials charge.

O.T. Fine Arts 165—Advanced woodwork. 2 points. Mr. HINELY.

This course is a continuation of *O.T. Fine Arts 163* and includes an introduction to the uses of power machinery.

* Also a Certificate course.

O.T. Clerkship 3—Medical and pediatric. 2 points. Miss FRANCISCUS (coordinator).

Correlation of instruction in medicine, surgery, pediatrics, and occupational therapy theory by assigned patient work-ups in occupational therapy units or ward situations. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion.

Required written reports and field trips.

Spring Session

***Occupational Therapy 24—Application to physical injuries. 2 points.** Miss ABBOTT.

Lecture and laboratory course in application of techniques in treatment of physical injuries and diseases including orthopedic and neurological disabilities. Measuring and charting of joint motion and muscle strength.

Demonstration and return demonstration by the student.

***Occupational Therapy 118—Rehabilitation. Miss FISH (coordinator) and special lecturers.**

Public and private agencies offering facilities for the physical and vocational rehabilitation of handicapped persons including guidance, training, and placement. A study of organization and legislation of state and federal vocational rehabilitation to acquaint the student with community resources, especially in terms of present-day trends.

Field trips.

***Clinical Subjects 102—Orthopedics, pediatrics, and public health. 2 points.**

Orthopedics. Professor THOMPSON.

Diseases and injuries of bones, joints, and muscles, causing impairment of function and deformity. Consideration to be given to body mechanics.

Clinical lectures and case demonstrations.

Pediatrics. Dr. WILSON.

A study of the common diseases of childhood.

Public Health. Dr. BARNARD.

An orientation course to familiarize the student with phases of preventive medicine and with public health problems including communicable and contagious diseases, tuberculosis, blindness, and deafness.

Exercise 112—Therapeutic exercise. 2 or 3 points. Professor SNOW and associates.

Fundamentals of muscle reeducation; the application of directed movement as an accessory in the treatment of altered function; includes practice in the treatment of crippled patients.

***O.T. Graphic Arts 1R—Art of hand printing. 1 or 2 points.** Messrs. Loos and FREY.

The fundamentals of printing, and its application as therapeutic exercise for handicapped persons. The lectures, which are supplemented by films, demonstrations, and trips, include: (a) type faces: history, sizes, point system, methods of hand and machine composition, makeup into pages, and fitting of copy; (b) proofreading; (c) presswork: a visit to a printing plant affords the student an opportunity to see in actual operation the methods of linotype composition, imposition, make-ready, and binding. The laboratory affords practical application of hand typesetting, including operation of hand and foot presses. Stress is placed on arrangement and good taste in handling various sizes of type.

***O.T. Fine Arts 17-18—Leather. 1 or 2 points.** Miss BROKAW.

A basic course covering the techniques of leather work as used in occupational therapy. Includes tooling, lacing, and decorating of leather. Types of leather and choice of equipment and projects for hospital practice are emphasized.

Materials charge.

* Also a Certificate course.

O.T. Fine Arts 32—Advanced weaving. 2 points. Miss HOUSE.

An advanced course in weaving. Weaving on two, four, and eight harness looms. Standard weaves. Colonial overshot, summer and winter, spot and lace Bronson, crackle, and twills. Special weaves: laid-in, warp and weft brocades, open weaves, tapestries, pile weaves, including looped and tufted types, double weaving, and Scandinavian techniques. Making of patterns and drafts and analysis of fabrics, including draft reading and tie-up. Experimenting with fibers and weaves with special emphasis on color, texture, and design. Trips to museums and other institutions.

Materials charges.

O.T. Fine Arts 168—Metalwork and jewelry. 2 points. Mr. HINELY.

A course in the basic techniques of hammered metal and jewelry. Elementary principles of mechanical drawing.

Materials charge.

O.T. Clerkship 4—Physical disabilities and rehabilitation. 2 points. Miss FISH (coordinator).

Correlation of instruction in orthopedics, neurology, and rehabilitation methods by assigned patient work-ups. A rotating clinical schedule is assigned each student. Each experience is followed by a group seminar.

Required written reports and field trips.

CERTIFICATE COURSE*Winter Session*

All courses marked with an asterisk under Winter Session, First Year and Second Year, must be taken. In addition:

O.T. Fine Arts 15—Minor crafts and needle crafts. 3 points. Miss BROKAW.

The more mechanical smaller crafts rather than the creative ones are taught in the minor crafts section of this course. The needlecraft section is designed to supplement the student's knowledge and to guide her in the application of all types of needlework to hospital practice of occupational therapy.

Materials charge.

O.T. Fine Arts 17. See Spring Session, Second Year.**O.T. Fine Arts 167—Woodwork. 2 points. Mr. HINELY.**

A course designed to orient students in the fundamentals of woodworking and to develop a reasonable skill in the use of hand tools and finishing processes. An introduction to the use of power tools.

Materials charge.

Spring Session

All courses marked with an asterisk under Spring Session, First Year and Second Year, must be taken. In addition:

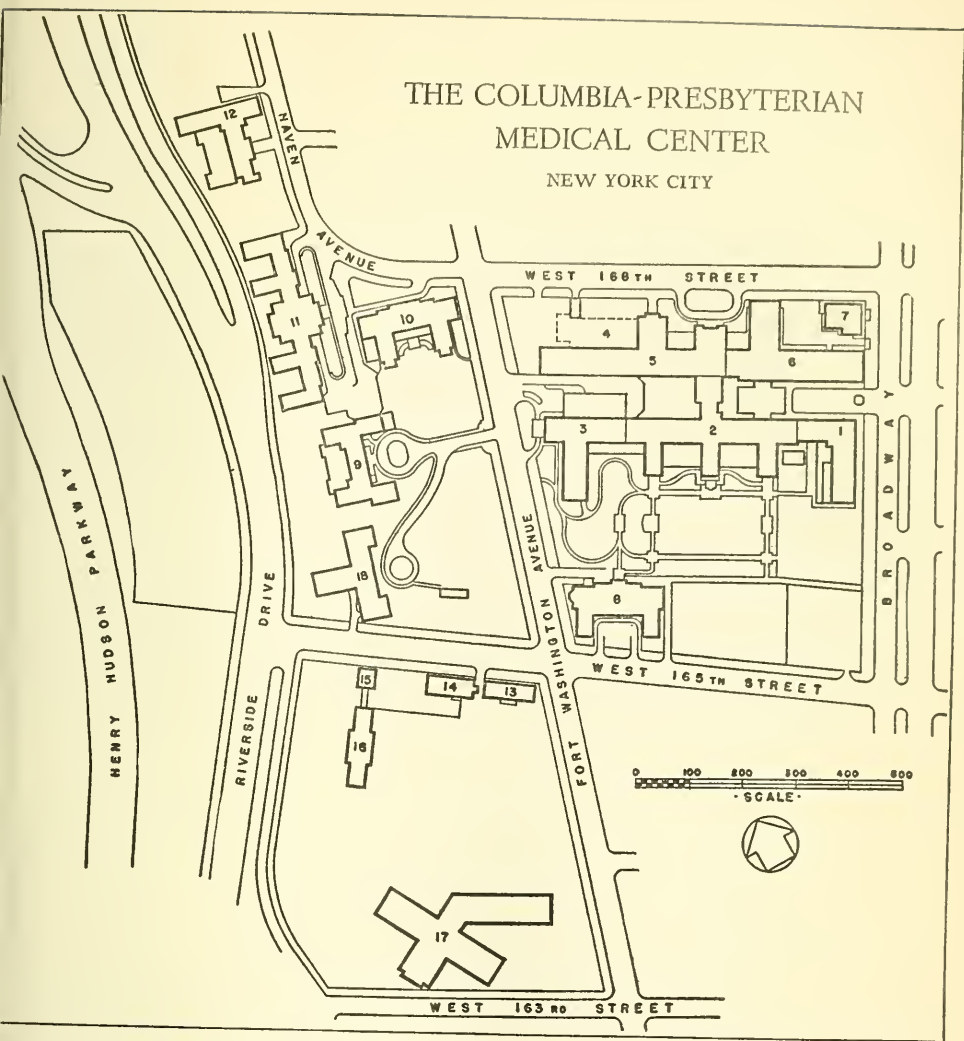
O.T. Fine Arts 34—Weaving. 2 points. Miss HOUSE.

Problems include the use of small appliances such as cards, inkle looms, and rigid and string heddle looms. Experimenting with unusual as well as standard yarns for texture and color. Plain weaving, simple harness-controlled patterns and standard weaves. Learning the mechanisms and setting up of the loom, as well as the making of patterns and reading and writing of drafts. Trips to museums.

O.T. Fine Arts 105-106. See Winter Session, Second Year.

THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER

NEW YORK CITY



- | | |
|---|---|
| 1. Babies Hospital | 8. Institute of Ophthalmology |
| 2. Presbyterian Hospital | 9. Maxwell Hall |
| Sloane Hospital | 10. Neurological Institute |
| 3. Harkness Pavilion | 11. New York State Psychiatric Institute and
Hospital |
| 4. Power plant | 12. Bard Hall |
| 5. College of Physicians and Surgeons | 13, 16. Storage |
| 6. Vanderbilt Clinic | 14. Shops |
| School of Dental and Oral Surgery | 15. Housing |
| 7. Washington Heights Health and Teaching
Center, New York City Dept. of Health
School of Public Health | 17. Francis Delafield Hospital, New York City
Dept. of Hospitals |
| | 18. Edward S. Harkness Memorial Hall |

Columbia University. College of
Physicians & Surgeons. Dept. of Medicine
Announcement of Courses for Physio-
therapists, Occupational Therapists

200-8
Columbia University
BULLETIN OF INFORMATION

Fifty-first Series, No. 4

February 10, 1951

STACKS
MEDICAL LIBRARY
ANNOUNCEMENT OF COURSES
FOR

PHYSICAL THERAPISTS

OCCUPATIONAL THERAPISTS

COLLEGE OF PHYSICIANS AND SURGEONS



Gift
FOR THE WINTER AND SPRING SESSIONS

1951-1952

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N.Y.

Columbia University Bulletin of Information

Fifty-first Series, No. 4

February 10, 1951

Issued at Columbia University, Morningside Heights, New York 27, N. Y., weekly from January for forty consecutive issues. Re-entered as second-class matter January 20, 1951, at the Post Office at New York, N. Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees and the Announcements of the several Colleges and Schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon application to the Office of University Admissions.

C. U. P. 9,500—1951

INFORMATION

Application blanks and further information about the courses in this Announcement may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y. The office is open weekdays 9 a.m. to 5 p.m.; Saturdays by appointment. Telephone: WAdsworth 3-2500, extension 7941.

WINTER SESSION

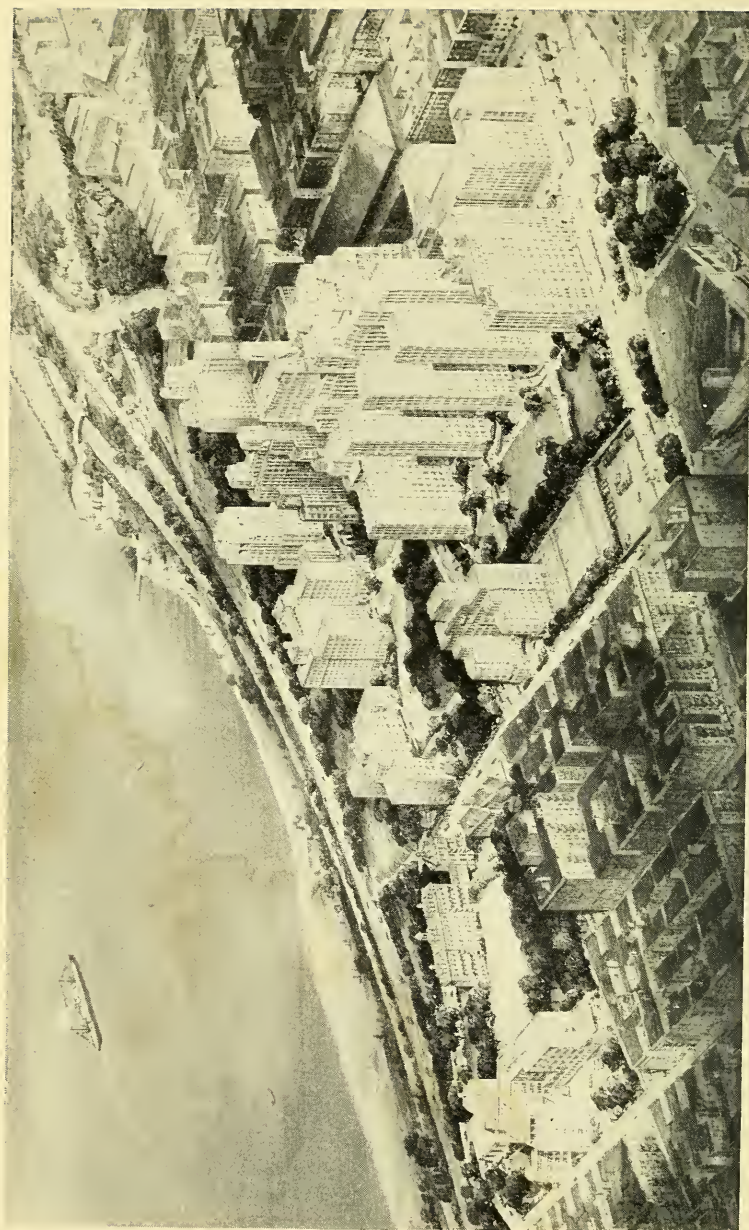
September 25, 1951, through January 30, 1952

Registration—September 20 through 24

SPRING SESSION

February 4 through May 31, 1952

Registration—January 31 through February 2



Columbia-Presbyterian Medical Center

Columbia University

in the City of New York

ANNOUNCEMENT OF
COURSES FOR
PHYSICAL THERAPISTS AND
OCCUPATIONAL THERAPISTS

FOR THE WINTER AND SPRING SESSIONS

1951-1952



COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N.Y.

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ACADEMIC CALENDAR

The complete Academic Calendar for the year 1951-1952 may be obtained from the Secretary of the University.

The University maintains three sessions during the year: the Winter Session, beginning September 25 and ending January 30; the Spring Session, beginning February 4 and ending May 31; and the Summer Session of six weeks.

1951

June	28	Thursday. Registration in Summer Session begins.
June	30	Saturday. Last day for registration in Summer Session for students desiring credit without payment of a late fee.
July	2	Monday. Fifty-second Summer Session begins.
July	3	Tuesday. Last day for making changes in program for the Summer Session.
July	4	Wednesday. Independence Day. Holiday.
August	1	Wednesday. Last day for filing application for deficiency and special examinations to be held in September. The privilege of later application may be granted on payment of a late fee.
August	10	Friday. Final examinations in Summer Session. Fifty-second Summer Session ends.
September	13	Thursday. Examinations for deficient students begin.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES)
FOR THE WINTER SESSION

September	20	Thursday, through September 24, Monday. For students in Physical Therapy and Occupational Therapy courses.
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September	25	Tuesday. Opening exercises, 198th year. Classes begin.
October	1	Monday. Last day for filing application or renewal of application for the degree of B.S. and for the certificate to be awarded in October. The privilege of later application may be granted on payment of a late fee.
October	6	Saturday. Last day for making changes in program.
October	12	Friday. Columbus Day. Not a University holiday.
November	6	Tuesday. Election Day. Holiday.
November	15	Thursday. Midterm date, Winter Session.
November	20	Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
November	22	Thursday. Thanksgiving Day. Holiday.
December	1	Saturday. Last day for filing application or renewal of application for the degree of B.S. and for the certificate to be awarded in February. The privilege of later application may be granted on payment of a late fee.
December	24	Monday, through

1952

January	6	Sunday. Christmas holidays.
January	19	Saturday, through January 30, Wednesday. Midyear examinations.
January	20	Sunday. Annual Commemoration Service in St. Paul's Chapel.
January	30	Wednesday. Winter Session ends.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES)
FOR THE SPRING SESSION

1952

January 31 Thursday, through February 2, Saturday. For students in Physical Therapy and Occupational Therapy courses.

February 4 **Monday. Spring Session begins. Classes begin.**

February 9 Saturday. Last day for making changes in program.

February 12 Tuesday. Lincoln's Birthday. Not a University holiday.

February 22 Friday. Washington's Birthday. Not a University holiday.

March 1 Saturday. Last day for filing application or renewal of application for the degree of B.S. and for the certificate to be awarded in June. The privilege of later application may be granted on payment of a late fee.
Last day for filing application for deficiency and special examinations to be held in April. The privilege of later application may be granted on payment of a late fee.

March 24 Monday. Midterm date, Spring Session.

April 6 Sunday, through April 13, Sunday. **Easter holidays.**

April 21 Monday, through April 25, Friday. Deficiency examinations.

May 21 Wednesday, through May 31, Saturday. Final examinations.

May 30 Friday. Memorial Day. Not a University holiday.

May 31 Saturday. **Spring Session ends.**

COMMENCEMENT, JUNE 1 TO JUNE 5

June 1 Sunday. Baccalaureate Service.

June 5 Thursday. **Conferring of degrees.**

July 2 Wednesday. Registration in Summer Session begins.

July 4 Friday. Independence Day. Holiday.

July 5 Saturday. Last day for registration in Summer Session for students desiring credit without payment of a late fee.

July 7 **Monday. Fifty-third Summer Session begins.**

July 8 Tuesday. Last day for making changes in program for the Summer Session.

August 1 Friday. Last day for filing application for deficiency and special examinations to be held in September. The privilege of later application may be granted on payment of a late fee.

August 15 Friday. Final examinations in Summer Session.
Fifty-third Summer Session ends.

PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

This Announcement describes two separate training courses offered by Columbia University: Physical Therapy and Occupational Therapy. These courses are given at the Columbia-Presbyterian Medical Center under the auspices of the Faculty of Medicine. The courses of study are approved by the Council on Medical Education and Hospitals of the American Medical Association and prepare the student to meet the qualifications for registration in either physical or occupational therapy.

The information immediately following is concerned with general University regulations which apply to all students. For complete details on each of the two training programs, refer to the appropriate section in this Announcement.

REGISTRATION AND EXPENSES

Registration

Before attending any University course, every student must present himself at the office of the Registrar and file a registration form, giving such information as may be required. The office is situated on the second floor of the College of Physicians and Surgeons, 630 West 168th Street, and is open from 9 a.m. to 5 p.m. daily except Saturdays and holidays, and on Saturday from 9 a.m. to 12 noon. The periods set aside for registration of students in physical and occupational therapy for the Winter and Spring Sessions of the academic year 1951-1952 are as follows:

Winter Session: September 20 through September 24.

Spring Session: January 31 through February 2.

Approval of Program.—Programs for all students in physical and occupational therapy must be approved before registration by the Directors in physical and occupational therapy. All changes of program must also be approved by the Directors, and no change of program will be permitted beyond the second Saturday after the opening of the Winter Session or beyond the first Saturday after the opening of the Spring Session (see Academic Calendar) except by special permission.

Fees

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. No reduction is made for late registration. Registration will not be complete until such fees are paid. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following fees are prescribed for physical and occupational therapy:

(a) University Fee

For each Winter or Spring Session or any part thereof \$ 10.00

(b) Tuition Fee

For all courses except where a special fee is fixed, per point 20.00

With the proviso that the fee for a Winter or Spring Session in the case of a student enrolled for fifteen or more points in physical therapy or in occupational therapy shall be 300.00

(c) Student Health and Hospitalization Fee

This fee will be used to pay the annual premium of the Associated Hospitals Service of New York for hospitalization insurance and to pay part of the cost of the student health service. For all students, per academic year . \$20.00

(d) Fee for Application

For any degree	20.00
For any certificate	10.00

(e) Privileges

1. Late registration or late application for a degree or certificate or for deficiency or special examinations	3.00
2. Renewal of application for any degree or certificate	1.00
3. Deficiency and special examinations	3.00

(f) Rebates

1. The University fee and the fee for application for any degree or certificate shall not be subject to rebate.
2. After the last day of the period provided for change of course, as announced in the Academic Calendar, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

For the ultimate date for the completion of registration and for filing an application for a special examination, or for a certificate, without the payment of an additional fee, see the Academic Calendar.

A deposit for the use of lockers, keys, apparatus, material, and the like is required of students in certain schools and courses.

Acceptance Fee.—Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Director that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if the applicant does not register for the courses for the following academic year, it will not be returned. If he registers in the Courses for Physical and Occupational Therapy in the class to which he has been admitted, the amount of the acceptance fee will be deducted from his tuition fees.

GENERAL REGULATIONS

Residence

All women students under twenty-one years of age, who are not living at home or with relatives, are required to secure approval of their residence from the Directors of Training Courses, Office of Physical and Occupational Therapy, College of Physicians and Surgeons. Detailed information concerning desirable accommodations may be obtained from this office.

Student Health Service

In accordance with the requirements of the American Medical Association, a physical examination (including tuberculin tests) will be given each student in the professional courses during the first session of attendance. Further physical examinations will be given during the training period, whenever it is deemed advisable.

Students requiring hospitalization will be taken care of either in the wards of the Medical Center, or elsewhere, under a hospitalization insurance policy.

Daily office hours are held for sick students by the Student Health Service, Room 2-200, Vanderbilt Clinic. Members of the Health Service are available to attend ill students if they live near the Medical Center.

Students

Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the consent of the appropriate Dean or Director.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the Office of Physical and Occupational Therapy for equitable relief.

Absences

It is a student's duty to attend punctually each class or laboratory exercise in each course. For credit toward the certificate and degree, regular attendance is required in addition to the proficiency attested by classwork and examination.

Academic Discipline

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved powers of the President, in the dean of each faculty and the director of the work of each administrative board.

Withdrawal

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Director. Students withdrawing are required to notify the Registrar immediately.

The Director may, for reasons of weight, grant a leave of absence to a student in good standing.

RESIDENCE HALLS AND OTHER FACILITIES

Residence Halls

The Residence Halls of the University are located on or immediately adjacent to the Campus and afford easy access to libraries and classrooms as well as comfortable accommodations in an environment conducive to academic work. They serve also as a center of campus life and provide for students companionship with other students of like interests. The University, therefore, desires it students to live whenever possible in Residence Halls.

Within several of the Residence Halls are dining rooms maintained for all students and faculty of the University.

The Hall infirmaries are for the exclusive use of those living in the Residence Halls.

Assignment of rooms is made on the session basis. Room payments are due at the beginning of each session, but in case of need other arrangements can be made.

Students coming from out of town to attend evening classes or those wishing to stay overnight at Columbia may secure accommodations by applying to the Livingston Hall office (for men) or Johnson Hall office (for women).

Requests for further information and application forms should be sent to the Residence Halls Office, 125 Livingston Hall (for men), or the Johnson Hall Office (for women). The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

Residence for Men

There are four University Residence Halls, on South Quadrangle, which have accommodations for approximately 1,684 men. Hartley Hall, Livingston Hall, and the lower floors of John Jay Hall are reserved for students in Columbia College; Furnald Hall for law and graduate students; and the upper floors of John Jay Hall for graduate and professional school students. Rates for the academic year range from \$170 to \$350. There are a few rooms available at \$140 which are assigned only with the approval of the Director of the University Placement Bureau, Alumni House. Application for these accommodations should be filed with the Men's Residence Halls Office, together with the statement that application has been made to the Director of the University Placement Bureau for his approval. These lowest-priced rooms will not be assigned to students holding scholarships amounting to \$400 or more.

All rates are subject to change if costs increase greatly.

The main dining room is on the first floor of John Jay Hall. The lower John Jay Lobby leads to the Lion's Den, a grill room (open to both men and women students) with facilities for late breakfast, lunch, and dinner.

Residence for Women

Johnson Hall is provided by the University as a residence for women students in the graduate and professional schools. A limited number of rooms are assigned to full-time undergraduate students who are matriculated for a degree. The Hall was erected and particularly designed for the comfort and convenience of women students. With its various social rooms, attractive dining room, and comfortable bedrooms, it offers pleasant conditions for University life. The rates for rooms range from \$230 to \$455 for the academic year. The rate for two meals a day, breakfast and dinner, is \$330 for the academic year. All rates are subject to change if costs increase greatly. Residents of Johnson Hall are required to take breakfast and dinner in the dining room of Johnson Hall.

Off-Campus Accommodations

Columbia University maintains a Registry of Off-Campus Accommodations where the addresses of available furnished rooms in the neighborhood may be obtained. It is not possible to obtain listings by mail as these accommodations are for immediate rental, and it is advisable that rooms be engaged only after personal inspection. This Registry is for the use of faculty, staff, and students of the University, and each applicant must show a letter of admission or some other official Columbia correspondence to be eligible for this service. There is no charge for this service to either the student or the landlord and all financial arrangements must be concluded between the applicant and the landlord. The Registry is located in Livingston Hall.

Women under twenty-one years of age are expected to make their selection from a special list of addresses.

Earl Hall

Earl Hall was given to Columbia University by the late William Earl Dodge as a center for the religious and social activities of the students. On the main and upper floors, reached by the Campus entrance, are the offices of the Chaplain and his staff and of the three religious counselors. These floors also contain an auditorium, a lounge, meeting room, kitchen, and other facilities. The lower floor, entered from the Broadway side, is occupied by the offices of the University Medical Officer.

The Library

The University library system consists of the main collection housed in the Nicholas Murray Butler Library Building and over thirty departmental libraries and reading rooms located in various buildings. These libraries contain over two million volumes, exclusive of unbound pamphlets. Among those affording unusual advantage to the students in physical and occupational therapy are the libraries of Teachers College and the Medical Library of the College of Physicians and Surgeons located at the Columbia-Presbyterian Medical Center.

The physical and occupational therapy collection of reference books, periodicals, and pamphlets is housed at the Medical Library and at the Institute for the Crippled and Disabled.

Students registered for physical or occupational therapy courses have the privilege of using the Lending Service Department (Room 203, Butler Library), which provides, for a small daily fee, not only current books of general interest, fiction and nonfiction, but also books needed for required and recommended reading in many courses.

Coordinated Program of Physical Medicine

Physical Medicine cross-sections practically all medical specialties. The practice, teaching, and research in Physical Medicine need close integration for maximum availability and usefulness. Dr. Robert C. Darling, Associate Professor of Medicine, serves as Coordinator of the total program at the Columbia-Presbyterian Medical Center and institutions allied with the Medical School.

Physicians training in Physical Medicine under Baruch grants are integrated into the therapist training program. They work with the students and assist in the training of students.

The Institute for the Crippled and Disabled

The Institute for the Crippled and Disabled, located at 400 First Avenue, is closely affiliated with Columbia University and offers broad clinical and educational facilities for the training of physical therapy and occupational therapy students. An occupational therapy teaching unit, established at the Institute, is used for instruction and houses a skills library. Special equipment for the instruction of kinesiology and for the instruction and laboratory practice of massage is provided for the students in physical therapy.

Medical Center Bookstore

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 a.m. to 5:30 p.m.; Saturdays, 8:45 a.m. to 1:30 p.m.

Student Activities

The Physical and Occupational Therapy Club is the student organization in which activities of a recreational, social, and professional nature are carried on. Men and women prominent in these fields are invited to address the Club.

One of the special activities is the visual education program of movies embracing physical and occupational therapy techniques, physical restoration, and vocational aspects of rehabilitation.

Each class of students has its own organization and officers with representatives on the University Student Council.

The Columbia University Student Council, composed of elected representatives from the students of the several schools and faculties of the University, represents the students in matters affecting the student body as a whole, with the object of promoting cooperation and understanding among the students, faculty, and administration.

Graduates of the Physical and Occupational Therapy programs have Alumni Associations, which in turn are group members affiliated with the Alumni Federation of Columbia University.

Opportunities for exercise and recreation are provided.

Students are encouraged to utilize the educational and cultural opportunities offered in the City of New York.

STUDENT AID

Loan Funds

Loan funds are provided in limited amount for student assistance. Application is made on a blank which may be obtained from the Bursar, Room 310, University Hall. Application for loans for the Winter Session should be made by September 15; for the Spring Session, by January 15.

Employment

The University Placement Bureau, located in Alumni House, is that department of the University through which men and women students and graduates are referred to suitable

positions during their attendance at the University and after graduation. A booklet describing the facilities of the Placement Bureau and the more general types of employment opportunities available will be mailed upon request. Communications should be addressed to the Director of the University Placement Bureau, Alumni House, Columbia University, New York 27, N. Y.

The Physical and Occupational Therapy Office maintains a listing of positions throughout the country available to graduate therapists. Current graduates and alumni are encouraged to refer to the Office for these positions.

PHYSICAL THERAPY

ADMINISTRATIVE OFFICERS

- DWIGHT D. EISENHOWER, LL.D. *President of the University*
- WILLARD COLE RAPPLEYE, A.M., M.D., Sc.D. *Vice President in Charge of
Medical Affairs; Dean, Faculty of Medicine*
- WILLIAM BENHAM SNOW, M.D. *Associate Professor of Physical Medicine, Faculty of
Medicine; Director, Physical and Occupational Therapy
Columbia-Presbyterian Medical Center*
- FLOY PINKERTON, A.M., R.P.T. *Director, Training for Physical Therapists*
- MARY E. CALLAHAN, B.S., R.N., R.P.T.
Associate Director, Training for Physical Therapists

OFFICERS OF INSTRUCTION

- MARGUERITE ABBOTT, O.T.R. *Motor Disabilities*
B.S., Tufts; Graduate, Boston School of Occupational Therapy
Instructor in Training for Occupational Therapists
- EDITH H. BROKAW *Practical Application*
Graduate, Philadelphia School of Occupational Therapy
Instructor in Training for Occupational Therapists
- BESSIE B. BURGEMEISTER *Abnormal Psychology*
A.B., A.M., Ph.D., Columbia
Research Psychologist, Department of Neurology
Research Assistant in Neurology
- MARY ELIZABETH CALLAHAN, R.N., R.P.T. *Physical Therapy Theory
Massage, Seminar*
B.S., New York University
Graduate, Clinton Hospital, Clinton, Mass.; Physical Therapy, Posse Institute
Associate Director, Training for Physical Therapists
- SIDNEY CARTER *Psychiatry*
A.B., Dartmouth; M.D., Boston University
Assistant Professor of Neurology
- LOUIS J. CIZEK *Physiology*
B.S., Fordham; M.D., Columbia
Assistant Professor of Physiology
- CASSIUS LOPEZ DEVICTORIA *Practical Application*
M.D., New York Medical College
Instructor in Medicine; Director, Physical Therapy, St. Clare's Hospital
- HERBERT O. ELFTMAN *Anatomy and Physiology*
A.B., A.M., California; Ph.D., Columbia
Associate Professor of Anatomy
- MARJORIE FISH, O.T.R. *Theory of Occupational Therapy*
A.B., Swarthmore; Graduate, Boston School of Occupational Therapy
Director, Training for Occupational Therapists
- MARIE LOUISE FRANCISCUS, O.T.R. *Principles and Practice of
Occupational Therapy*
B.S., Ohio State; Graduate, Philadelphia School of Occupational Therapy
Associate Director, Training for Occupational Therapists

- GILBERT H. GLASER *Psychiatry*
 A.B., M.D., Columbia
 Senior Research Psychiatrist, New York State Psychiatric Institute
 Instructor in Neurology
- LEONARD J. GOLDWATER *Practical Application*
 A.B., Michigan; M.D., Sc.D., New York University; M.S., Columbia
 Professor of Industrial Hygiene
- JUSTIN L. GREENE *Motor Disabilities, Neurology*
 A.B., Columbia; M.D., Paris
 Assistant Attending Neurologist, Neurological Institute
 Instructor in Neurology
- ARNO DAVID GUREWITSCH *Massage, Practical Application*
 M.D., Basel
 Instructor in Medicine; Assistant Attending Physician, Presbyterian Hospital
- MORTON HOBERMAN *Motor Disabilities, Therapeutic Exercise*
 B.S., New York University; M.B., M.D., Wayne
 Assistant Physician in charge of Physical Therapy, New York State Rehabilitation Hospital
 Chief of Physical Therapy, Vanderbilt Clinic, Columbia-Presbyterian Medical Center
 Instructor in Medicine
- PAUL FREDERICK ADAM HOFER *Physical Therapy Theory*
 A.M., Ph.D., Berlin; M.D., Wurzburg
 Associate Professor of Neurology
- WILLIAM A. HORWITZ *Physical Therapy Theory*
 M.D., Albany Medical College; Sc.D., Columbia
 Assistant Clinical Professor of Psychiatry
- STEPHEN S. HUDACK *Practical Application*
 A.B., M.D., Western Reserve
 Associate Professor of Orthopedic Surgery
- KENNETH KELLEY *Psychiatry*
 A.B., Stanford; M.B., M.D., Northwestern
 Associate in Psychiatry
- DONALD W. KING, JR. *Pathology*
 A.B., M.D., Syracuse
 Instructor in Pathology
- FREDERICK J. KNOCKE *Orthopedics*
 A.B., Princeton; M.D., Cornell
 Instructor in Orthopedic Surgery
- MARION D. LAIRD *Practical Application*
 B.A., Queens, Ontario; M.D., Toronto
 Instructor in Obstetrics and Gynecology, Department of Obstetrics and Gynecology, Presbyterian Hospital
- HARRIET G. MCCORMICK *Swimming*
 B.S., Wisconsin; A.M., Ph.D., Columbia
 Lecturer in Dental Hygiene
- HARRISON L. McLAUGHLIN *Practical Application*
 M.D., Queens University Medical College
 Professor of Clinical Orthopedic Surgery
- JAMES LOWRY MILLER *Practical Application*
 A.B., North Carolina, M.D., Pennsylvania
 Associate Clinical Professor of Dermatology

- JOSEPH MOLDAVER *Physical Therapy Theory*
M.D., Brussels
Associate in Neurology, College of Physicians and Surgeons
- CHARLES ROBERT NOBACK *Anatomy*
B.S., Cornell; M.S., New York University; Ph.D., Minnesota
Assistant Professor of Anatomy
- FLOY PINKERTON, R.P.T. *Kinesiology, Massage, Relaxation
Therapeutic Exercise, Seminar*
B.S., Stephen F. Austin State Teachers College; A.M., Columbia
Director, Training for Physical Therapists
- BERTRAM J. SANGER *Practical Application*
A.B., Texas; M.D., Johns Hopkins
Assistant Clinical Professor of Medicine
- DANIEL SCIARRA *Neuroanatomy*
B.A., M.D., Harvard
Associate in Neurology
- ALAN DEFOREST SMITH *Adviser in Orthopedics*
A.B., M.D., Columbia
Professor of Orthopedic Surgery
- WILLIAM BENHAM SNOW *Therapeutic Exercise, Ethics
Practical Application, Physical Therapy Theory, Motor Disabilities*
M.D., Long Island College of Medicine
Director, Physical Therapy and Occupational Therapy, Columbia-Presbyterian Medical Center
Associate Professor of Physical Medicine
- WALTER ALEXANDER STEWART *Psychiatry*
A.B., Dartmouth; M.D., Johns Hopkins
Research Assistant in Psychiatry
- BLANCHE TALMUD, R.P.T. *Recreation*
B.S., New York University; Graduate, School of Physical Therapy, New York University
Supervising Physical Therapist, Institute for the Crippled and Disabled; Lecturer in Physical Therapy
- SONYA EISENMENGER WEBER, Ph.T. *Therapeutic Exercise*
A.B., Vienna; Sc.D., Eastern Reserve
Instructor in Physical Medicine
- DEGRAAF WOODMAN *Practical Application*
B.S., M.D., Cornell
Clinical Professor of Otolaryngology

Special Lecturers

- ARTHUR ABRAMSON *Practical Application*
B.S., M.D., C.M., McGill
Chief, Physical Medicine Rehabilitation Service, Bronx Veterans Administration Hospital
- ELIZABETH M. CARRICK *Social Case Work and Records*
B.S., Ohio State; A.M., New York School of Social Work
Instructor, New York School of Social Work
- MARIAN CASS *Motor Disabilities, Speech*
A.B., Nebraska; A.M., Ed.D., Columbia; M.D., Baltimore
Associated with Dr. Winthrop M. Phelps
- EDITH HANSEN, R.N., P.H.N., R.P.T. *Physical Therapy Theory*
Graduate, General Lutheran Hospital, Sioux City, Iowa

- EDWARD F. HARTUNG *Practical Application*
A.B., M.D., Columbia
Assistant Clinical Professor of Medicine, New York Post-Graduate Medical School and Hospital
- MARGARET HEBERT, R.N., R.P.T. *Bandaging, Physical Therapy Theory
Therapeutic Exercise, Hydrotherapy*
R.N., Quincy City Hospital, Quincy, Mass.; R.P.T., Columbia
- JETTA HENDIN, R.P.T. *Therapeutic Exercise*
B.S., Manitoba
Physical Therapist, Columbia-Presbyterian Medical Center
- SHULAMITH KASTEIN *Therapeutic Exercise*
Speech Pathologist, Department of Audiology and Phonology, Presbyterian Hospital
- HENRY KESSLER *Practical Application*
A.B., M.D., Cornell; A.M., Ph.D., Columbia
Director, The Kessler Institute for Rehabilitation, West Orange, New Jersey
- JACOB MEISLIN *Practical Application*
B.S., City College of New York; M.D., Lausanne
Chief, Physical Medicine and Rehabilitation, Franklin Delano Roosevelt Hospital, Montrose, N. Y.
- DOREEN POLLACK *Therapeutic Exercise*
Speech and Hearing Therapist, Department of Audiology and Phonology, Presbyterian Hospital
- MARY JANE PRESTON *Recreation*
Recreation Instructor, Pilgrim State Hospital, Brentwood, New York
- JOSEPHINE L. RATHBONE, R.P.T. *General*
A.B., A.M., Wellesley; Ph.D., Columbia
Associate Professor of Health and Physical Education, Teachers College
- FRANK KNAPP SAFFORD, JR. *Physical Therapy Theory, Radiation*
M.D., Vienna
Assistant Professor of Physical Medicine and Rehabilitation, New York Medical College
- MARJORIE P. SHELDON *Rehabilitation*
B.S., A.M., New York University
Instructor, Orthopedic Physical Education, Branch Brook School, Newark, New Jersey
- DOUGLAS SJOBERG *Physics*
A.B., A.M., California
- BEVERLY CHEW SMITH *Practical Application*
M.D., Virginia
- JOSEPH EARL SNYDER *Ethics*
A.B., Nebraska; M.D., Pennsylvania
Administrative Assistant, In Charge of Professional Services, Presbyterian Hospital

PHYSICAL THERAPY

Physical therapy is the treatment of disease and injury by the use of such natural agents as sunshine, water, exercise, massage, mechanical forces, and electricity. Functional rehabilitation of persons injured by disease or accident is a pressing medical need; the skillful application of physical therapy following injury will do much to shorten the time of disability. The ultimate aim of any treatment is the maximal rehabilitation and adjustment of the patient. The success of this type of treatment is dependent upon the therapist's knowledge, care, and precision in the administration of the intelligent medical prescription.

The course of study here described gives the student a basic knowledge of the normal functions of the human body and of the pathology of those diseases and injuries in which physical therapy can be helpful in the optimum rehabilitation of the patient.

The curriculum is planned to serve the educational needs of students working towards the Bachelor of Science degree or towards the Certificate of Proficiency in Physical Therapy.

The Bachelor of Science degree is offered upon completion of the full Junior and Senior program. This program is superimposed upon two years of liberal arts with a minimum of sixty semester hours including the proper science prerequisites.

The Certificate of Proficiency in Physical Therapy is offered upon completion of the program prescribed for students of Advanced Standing. This program is superimposed upon the background of one of the following:

- (a) Graduation from an approved school of nursing.
- (b) At least a Bachelor's degree from an accredited college or university.

Minimum standards for approved schools of physical therapy are set by the American Medical Association through the Council on Medical Education and Hospitals and by the American Physical Therapy Association.

Graduates of either the two-year course or the one-year course are eligible for admission to the examination of the American Registry of Physical Therapy Technicians and for membership in the American Physical Therapy Association.

Admission Requirements

Applicants for admission must be graduates of approved high schools and must satisfy one of the following requirements:

Candidates for the degree course of study:

Two years or sixty semester hours of credit in the liberal arts, with six semester hours in biological science, four semester hours in physics and/or chemistry, and six semester hours in psychology.

(The Bachelor of Science degree with a major in Physical Therapy is awarded.)

Candidates for the advanced standing course of study:

- (a) Graduation from an approved college with at least a Bachelor of Science or Bachelor of Arts degree with science requirements as follows:

- Eight semester hours in biological science

- Six semester hours in physics and/or chemistry

- Ten semester hours in social science (of which six must be in psychology)

- (b) Graduation from an approved school of nursing.

(The Certificate of Proficiency in Physical Therapy is awarded.)

Estimated Expenses

Following is an itemized estimate of expenses of attendance in the courses in physical therapy:

<i>University Expenses</i>	<i>Degree Course</i>	<i>Advanced Standing Course</i>
Tuition	\$1,240	\$680
University fees	45	25
Books, materials, equipment, uniforms	90	75
Health and hospital fee	40	20
Degree or Certificate application	20	10
<i>Total</i>	\$1,435	\$810
<i>Living Expenses (academic year)</i>	<i>Average</i>	<i>Minimum</i>
Room	\$360	\$230
Board	330	330
Summer Clinical	125	100
<i>Total</i>	\$815	\$660

COURSE OF STUDY IN PHYSICAL THERAPY

An outline of the program of studies for each year of the course is given below. This course of study meets requirements of, and is approved by, the Council on Medical Education and Hospitals of the American Medical Association.

DEGREE COURSE

Junior Year

Winter Session

		Points
<i>Anatomy</i> 155	Anatomy and physiology	3
<i>Physics</i> 111	Physics applied to physical medicine	2
<i>Pathology</i> 31	Elementary studies in pathology	1
<i>Ethics</i> 39	Ethics and institutional aspects of physical therapy	1
<i>Massage</i> 3	Theory and practice	2
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2
<i>Psychology</i> 33	Abnormal psychology	2
<i>Education</i> 41R	Introduction to records and case work	1
<i>Neuroanatomy</i> 95	Anatomy of the nervous system	1
		—
		15

Spring Session

<i>Radiation</i> 10	Theory and practice of heat application and radiation	2
<i>Hydrotherapy</i> 18	Theory and practice of hydrotherapy	1
<i>Orthopedics</i> 136	General survey of orthopedics	2
<i>Exercise</i> 112	Therapeutic exercise	3
<i>Clinical Instruction and Experience in Massage</i>		2
<i>Relaxation</i> 144	Theory and practice of relaxation	2
<i>Psychiatry</i> 102	Elementary psychiatry	2
<i>Neurology</i> 106	Elementary neurology	2
<i>Swimming</i> 8	Elementary swimming	1
<i>Recreation</i> 170	Recreation techniques for the disabled	2
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		19

Summer Session

(Two months)

Clinical Practice	2
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Senior Year

Winter Session

<i>P.T. Theory</i> 13	Theory and practice of electrotherapy, etc.	2
<i>Motor Disabilities</i> 121	Physical therapy techniques for motor disabilities	2
<i>Bandaging</i> 17	Bandaging and dressings	1
<i>Clinical Instruction and Experience in Therapeutic Exercise</i>		2

		Points
<i>Psychiatry</i> 101	Psychosomatic aspects of physical medicine	1
<i>Physiology</i> 157	Applied physiology	2
<i>Application</i> 29	Practical application of physical therapy	2
<i>Electives</i>		3
		15

Spring Session

<i>P.T. Theory</i> 16	Seminar	1
<i>Massage</i> 104	Advanced massage	1
<i>O.T. Theory</i> 14	Orientation to occupational therapy	1
<i>Application</i> 30	Practical application of physical therapy	3
<i>Rehabilitation</i> 150	Rehabilitation and acceptance of handicaps	2
<i>Speech</i> 162	Principles and practice of speech science	3
<i>General Clinical Experience and Clerkships</i>		2
<i>T.C. Biology</i> 253b	Muscles, bones, and joints	1
<i>Electives</i>		2
		16

Summer Session
(One-month Clinical)

<i>Application</i> 5130	Clinical practice and clerkships	2
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ADVANCED STANDING COURSE

Winter Session

<i>Anatomy</i> 155	Anatomy and physiology	3
<i>Physics</i> 111	Physics applied to physical medicine	2
<i>Massage</i> 3	Theory and practice	2
<i>Pathology</i> 31	Elementary studies in pathology	1
<i>Ethics</i> 39	Ethics and institutional aspects of physical therapy	1
<i>P.T. Theory</i> 13	Theory and practice of electrotherapy, etc.	2
<i>Neuroanatomy</i> 95	Anatomy of the nervous system	1
<i>Physiology</i> 157	Applied physiology	2
<i>Application</i> 29	Practical application of physical therapy, Part I	2
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2
<i>Bandaging</i> 17	Bandaging and dressing	1
		19

Spring Session

<i>Radiation</i> 10	Theory and practice of heat application and radiation	2
<i>Hydrotherapy</i> 18	Theory and practice of hydrotherapy	1
<i>Orthopedics</i> 136	General survey of orthopedics	2
<i>Exercise</i> 112	Therapeutic exercise	3
<i>Psychiatry</i> 102	Elementary psychiatry	2

		<i>Points</i>
<i>Neurology</i> 106	Elementary neurology	2
<i>Application</i> 30	Practical application of physical therapy, Part II	3
<i>Relaxation</i> 144	Theory and practice of relaxation	2
<i>Rehabilitation</i> 150	Rehabilitation and acceptance of handicaps	2
<i>Swimming</i> 8	Elementary swimming	1

 20

Summer Session
(Three-month Clinical)

<i>Application</i> 5140	Clinical practice and clerkships	4
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HOSPITALS AFFILIATED FOR CLINICAL TRAINING

Attendance in the hospitals and clinics listed below is concurrent with regular classroom work in the Winter and Spring Sessions. In addition, all students are required to spend a period during the summer in full-time clinical practice.

ASSOCIATION FOR THE AID OF CRIPPLED CHILDREN, New York, N. Y.

Mrs. Alice FitzGerald, *Educational Director*

BLYTHEDALE, Valhalla, N. Y.

Mrs. Ceil W. Sumergrad, *Superintendent*

Carroll Wardlaw, R.P.T., *Head Physical Therapist*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N. Y.

John S. Parke, *Executive Vice President*

Presbyterian Hospital

Mrs. Edith Hansen, R.N., R.P.T., *Head Physical Therapist*

Neurological Institute

Mary A. Cover, R.P.T., *Head Physical Therapist*

HOSPITAL FOR CHRONIC ILLNESS, Rocky Hill, Connecticut

A. N. Creadick, M.D., *Medical Director*

Nila Kirkpatrick Covalt, M.D., *Chief of Physical Medicine and Rehabilitation*

Annette Wolter, R.P.T., *Supervisor of Physical Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N. Y.

Col. John N. Smith, Jr., *Director*

Blanche Talmud, R.P.T., *Supervising Therapist*

NEWINGTON HOME FOR CRIPPLED CHILDREN, Newington, Connecticut

B. E. Foss, *Director*

Prudence M. Kuhrt, R.P.T., *Head Physical Therapist*

NEW YORK HOSPITAL, New York, N. Y.

Christian Hansson, M.D., *Director of Physical Medicine*

Margaret Valentine, R.P.T., *Head Physical Therapist*

NEW YORK SERVICE FOR ORTHOPEDICALLY HANDICAPPED, INC., New York, N. Y.

Mrs. Sarah Jane Kinoy, *Director*

Dorothy Richards, R.P.T., *Head Physical Therapist*

NEW YORK STATE REHABILITATION HOSPITAL, West Haverstraw, N. Y.

Herman E. Hillboe, M.D., *Commissioner (Department of Health, State of New York)*

A. J. Canning, M.D., *Director*

Margaret A. O'Neill, R.P.T., Ph.T., A.M., *Director, Department of Physical Therapy*

Erbert Cicenía, R.P.T., A.M., *Director of Rehabilitation Section*

BRONX VETERANS HOSPITAL, New York, N. Y.

Arthur Abramson, M.D., *Chief, Physical Medicine Rehabilitation Service*

Morris Vogel, *Acting Chief Physical Therapist*

NEW YORK REGIONAL OFFICE, VETERANS ADMINISTRATION, RAY CLINICS, New York, N. Y.

Irving Tepperberg, M.D., *Chief, Physical Medicine Rehabilitation Service*

G. DiNubila, *Chief Physical Therapist*

MARINE HOSPITAL, UNITED STATES PUBLIC HEALTH SERVICE, New York, N. Y.

Samuel M. Paley, M.D., *Director, Physical Medicine*

Esther Anderson, R.P.T., *Chief Physical Therapist*

OUTLINE OF COURSES

The University reserves the right to withdraw or modify these courses or to change the instructors as may seem wise.

NOTE: For additional courses open to students in physical therapy consult the Announcements of Teachers College and the School of General Studies.

Junior Year

Winter Session

Anatomy 155—Anatomy and physiology. Lectures and laboratory. 3 points. Professors Elftman and Noback.

Provides the basic and related histology, anatomy, and physiology for understanding the human body, especially the muscle-joint-bone unit. Includes demonstration on the human cadaver.

Physics 111—Physics applied to physical medicine. 2 points. Mr. Sjöberg.

Basic kinetics, radiation, hydro-dynamics, and electricity as they apply to the practice of physical therapy.

Pathology 31—Elementary studies in pathology. 1 point. Dr. King.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alterations of functions resulting from these influences.

Ethics 39—Ethics and institutional aspects of physical therapy. 1 point. Professor Snow.

Lectures governing appropriate conduct of medical assistants in the routine of their work. Orientation of medical workers toward institutional contacts.

Massage 3—Theory and practice. 2 points. Miss Callahan.

The theory and practice of massage with laboratory demonstrations and practice on patients.

Kinesiology 105—Applied anatomy and kinesiology. 2 points. Miss Pinkerton.

Review of gross anatomy of skeletal and muscular systems, mechanics of bodily movement, and analysis of skills used in daily activities and in physical and occupational therapy.

Psychology 33—Abnormal psychology. 2 points. Dr. Burgemeister.

Describes the common mental maladjustments, undertaking to explain them in terms of general psychological principles. The social implications of abnormalities are emphasized.

Prerequisite: General psychology.

Education 41R—Introduction to records and case work. 1 point. Mrs. Carrick.

Orientation in case work methods. Special emphasis is placed upon techniques and practice in reading the total record of the patient and in writing intelligent observational reports.

Neuroanatomy 95—Anatomy of the nervous system. 1 point. Dr. Sciarra.

Anatomy of the nervous system of man, including: essentials of the structural unit, the cerebrospinal system and the autonomic system. Attention will be given to the gross divisions of the brain and spinal cord with particular emphasis on the controls affecting voluntary motion.

Spring Session

Radiation 10—Theory and practice of heat application and radiation. 2 points. Dr. Safford.

A study of spectral radiation and the theory and technique of application of radiation of various types. Actual practice in various institutions.

Hydrotherapy 18—Theory and practice of hydrotherapy. 1 point. Miss Hebert.

Concerns physiological effects, technique, and application of water as a therapeutic agent.

Orthopedics 136—Orthopedics. 2 points. Dr. Knocke.

Lectures and clinical presentations descriptive of orthopedic conditions; some discussion as to problems—personal, medical, surgical. Rehabilitation problems common to this group of patients.

Exercise 112—Therapeutic exercise. 2 or 3 points. Professor Snow, Dr. Hoberman, Misses Pinkerton and Hebert.

Fundamentals of muscle reeducation; the application of directed movement as an accessory in the treatment of altered function; includes underwater techniques and practice in the treatment of crippled patients.

Relaxation 144—Lectures and laboratory. 2 points. Miss Pinkerton.

Methods and practice of relaxation to relieve fatigue, to increase efficiency in hypertensive individuals, and as prescribed treatment.

Psychiatry 102—Elementary psychiatry. 2 points. Drs. Carter and Glaser.

Etiology and symptomatology of the major and minor psychoses, including the psychoneuroses and their treatment. Lectures with clinical demonstrations.

Neurology 106—Clinical neurology. 2 points. Dr. Greene.

Symptomatology and treatment in diseases of the brain, spinal cord, and peripheral nerves.

Swimming 8—Elementary swimming. 1 point. Dr. McCormick.

Consideration is given to the skills and methods of teaching swimming.

Recreation 170—Recreation techniques for the disabled. 2 points. Miss Talmud.

Practical rehabilitation techniques exemplified through lecture, demonstration, and practice in recreation with a particular medical emphasis.

Senior Year*Winter Session***Physical Therapy Theory 13—Theory and practice of electro-therapy and miscellaneous physical therapy applications and diagnosis aids.** 3 points. Professor Snow; special lectures by Professor Hoefer, Drs. Safford, Horwitz, Moldaver, and Hoberman; Miss Hebert and Mrs. Hansen.

- (a) Techniques of application of electro-therapy.
- (b) Other miscellaneous physical therapy applications and diagnostic aids not otherwise provided for.
- (c) Intimate instruction in techniques of application of the various modalities of physical therapy with return demonstration by the student.

Motor Disabilities 121—Lectures and demonstrations. 2 points. Professor Snow, Drs. Greene, Hoberman, and Cass, and Miss Hendin.

A consideration of motor disabilities due to developmental abnormalities, disease, or injury. Techniques in the management of these patients with particular stress on the use of physical and occupational therapy in their rehabilitation.

Bandaging 17—Bandaging and dressing. 1 point. Miss Hebert.

The techniques of bandaging, asepsis, handling of dressings, and bedside conduct.

Psychiatry 101—Psychosomatic aspects of physical medicine. 1 point. Dr. Kelley.

The effect of personality factors on sick individuals and a consideration of the problems that occur due to alteration of their psyche as a result of stress of illness.

Physiology 157—Aspects of human physiology. 2 points. Dr. Cizek.

This course includes the physiology of the nervous system, of circulation, and of respiration. Emphasis is placed upon the physiology of exercise to meet the needs of the occupational therapy and physical therapy student. Lectures and laboratory demonstrations.

Application 29—Practical application of physical therapy in medical and surgical practice. Lectures and laboratory. 2 points. Professor Snow and associates.

This course gives the students a closer acquaintance with disease as it occurs in medical practice. Specialists discuss the problems in their fields of practice including particular pathology and they present the needs of physical therapy. This analysis is followed by prescription physical therapy to cover these special indications. There will be further clinical practice in hospitals.

Spring Session

Massage 104—Advanced massage. 1 point. Dr. Gurewitsch.

Neurological Institute.

Lectures and demonstrations of massage in the treatment of medical entities.

Prerequisite: *Massage 3.*

O.T. Theory 14—Orientation to occupational therapy. 1 point. Miss Franciscus.

General survey of the field. Theoretical principles as applied to major disability areas with particular emphasis of O.T. skills in the treatment of physical disabilities.

Application 30—Practical application of physical therapy in medical and surgical practice.

Lectures and laboratory. 3 points. Professor Snow and associates.

Continuation of *Application 29.*

Rehabilitation 150—Rehabilitation and acceptance of handicaps. 2 points. Miss Sheldon.

The readjustment physically and psychologically of the handicapped patient to meet the progressive problems of life; a consideration of the agencies for assisting handicapped individuals.

P.T. Theory 16—Seminar. 1 point. Misses Pinkerton and Callahan.

Lecture and discussion of topics of importance to the therapist in practice.

T.C. Biology 253b—Muscles, bones, and joints. 1 point. Miss Leavell.

For students who wish additional study on bones, joints, and muscles and experience in handling laboratory materials.

Speech 162—Principles and practice of speech science. 3 points. Dr. Cass.

Covers the basic anatomy and physiology underlying speech science. Consideration will be given to the pathology of speech abnormalities and the therapeutic approach for their correction.

Summer Session

Application S130—Clinical practice. 2 points. Clinical Supervisors.

Instruction, return demonstration, and general practice, for one month in affiliated hospitals, with special emphasis on underwater exercise, methods of rehabilitation and observation, and practice in muscle testing.

Application S140—Clinical Practice. 4 points. Clinical Supervisors.

General clinical practice in affiliated hospitals, on regular work-day basis, for two months. During an additional month students receive training in underwater exercise, methods of rehabilitation and observation, and practice in muscle testing.

(Open only to students pursuing the Certificate Course in the advanced-standing group.)

OCCUPATIONAL THERAPY

ADMINISTRATIVE OFFICERS

- DWIGHT D. EISENHOWER, LL.D. *President of the University*
- WILLARD COLE RAPPLEYE, A.M., M.D., Sc.D. . . . *Vice President in Charge of Medical Affairs; Dean, Faculty of Medicine*
- WILLIAM BENHAM SNOW, M.D. *Associate Professor of Physical Medicine, Faculty of Medicine; Director of Physical and Occupational Therapy, Columbia-Presbyterian Medical Center*
- MARJORIE FISH, A.B., O.T.R. *Director, Training for Occupational Therapists*
- MARIE LOUISE FRANCISCUS, B.S., O.T.R. *Associate Director, Training for Occupational Therapists*

OFFICERS OF INSTRUCTION

- MARGUERITE ABBOTT, O.T.R. *Occupational Therapy Applied to Physical Injuries*
B.S., Tufts; Graduate, Boston School of Occupational Therapy
Instructor in Training for Occupational Therapists
- LUCILLE H. BLUM *Child Development*
B.S., A.M., Ph.D., Columbia
Psychological Consultant, Cerebral Palsy Preschool Center, Lenox Hill Hospital
- EDITH H. BROKAW, O.T.R. *Design, Leather, General Crafts Needlecrafts, Weaving, Woodwork*
Graduate, Philadelphia School of Occupational Therapy
Instructor in Training for Occupational Therapists
- BESSIE B. BURGEMEISTER *Abnormal Psychology*
A.B., A.M., Ph.D., Columbia
Research Psychologist, Department of Neurology
Research Assistant in Neurology
- SIDNEY CARTER *Psychiatry*
A.B., Dartmouth; M.D., Boston University
Assistant Professor of Neurology
- GRAHAM CLARK *Eye Conditions*
B.S., M.D., Virginia
Instructor in Ophthalmology
- HERBERT O. ELFTMAN *Anatomy*
A.B., A.M., California; Ph.D., Columbia
Associate Professor of Anatomy
- CHARLES W. FINDLAY, JR. *General Surgery*
A.B., Yale; M.D., Columbia
Assistant in Surgery
- MARJORIE FISH, O.T.R. *Theory of Occupational Therapy, Rehabilitation Clerkships in Occupational Therapy*
A.B., Swarthmore; Graduate, Boston School of Occupational Therapy
Director, Training for Occupational Therapists

- MARIE LOUISE FRANCISCUS, O.T.R. *Principles and Practice of Occupational Therapy
Theory of Occupational Therapy, Clerkships in Occupational Therapy*
B.S., Ohio State; Graduate, Philadelphia School of Occupational Therapy
Associate Director, Training for Occupational Therapists
- EDWARD J. FREY *Printing*
Lecturer, School of General Studies
- GILBERT H. GLASER *Psychiatry*
A.B., M.D., Columbia
Instructor in Neurology
- JUSTIN L. GREENE *Motor Disabilities, Neurology*
A.B., Columbia; M.D., Paris
Instructor in Neurology
- WILLIE H. HINELY *Woodwork, Metalwork and Jewelry*
B.S., Georgia Teachers College; A.M., Columbia
Instructor in Fine and Industrial Arts in Teachers College
- MORTON HOBERMAN *Motor Disabilities, Therapeutic Exercise*
B.S., New York University; M.B., M.D., Wayne
Instructor in Medicine
- FLORENCE E. HOUSE *Weaving*
B.S., A.M., Columbia
Instructor in Training for Occupational Therapists
- CHARLOTTE R. HUMSEY, O.T.R. *General Crafts, Design
Leather, Weaving, Woodwork*
Graduate, Moore Institute of Art, Science, and Industry; Philadelphia School of Occupational Therapy
Assistant in Occupational Therapy
- DONALD W. KING, JR. *Pathology*
A.B., M.D., Syracuse
Instructor in Pathology
- FREDERICK J. KNOCKE *Orthopedics*
A.B., Princeton; M.D., Cornell
Instructor in Orthopedic Surgery
- JOHN S. LEARY *Pottery*
B.F.A., A.M., Ohio State
Instructor in Fine and Industrial Arts in Teachers College
- LUTIA CLEMSON LEAVELL *Biology*
B.S., A.M., M.S., Columbia
Instructor in Nursing Education in Teachers College
- MELVIN LOOS *Printing*
Lecturer in Graphic Arts in the School of General Studies
Manager, Printing Office, Columbia University Press
Acting Manager, University Service Bureau
- CHARLES ROBERT NOBACK *Anatomy*
B.S., Cornell; M.S., New York University; Ph.D., Minnesota
Assistant Professor of Anatomy
- JOHN OPPER *Design*
B.S., Western Reserve; A.M., Columbia
Instructor in Fine and Industrial Arts in Teachers College
- FLOY PINKERTON, R.P.T. *Kinesiology, Therapeutic Exercise*
B.S., Stephen F. Austin State Teachers College; A.M., Columbia
Director, Training for Physical Therapists

- DANIEL SCIARRA *Neuroanatomy, Psychiatry*
A.B., M.D., Harvard
Associate in Neurology
- MARTIN DE FOREST SMITH *General Medicine*
A.B., M.D., Columbia
Associate Clinical Professor of Medicine
- WILLIAM BENHAM SNOW *Therapeutic Exercise, Ethics*
Motor Disabilities
M.D., Long Island College of Medicine
Director, Physical and Occupational Therapy, Columbia-Presbyterian Medical Center
Associate Professor of Physical Medicine
- BLANCHE TALMUD *Recreation*
B.S., New York University; Graduate, School of Physical Therapy, New York University
Lecturer in Physical Therapy
- SHIH-CHUN WANG *Physiology*
B.S., Yenching; M.D., Peiping Union Medical; Ph.D., Northwestern
Associate Professor of Physiology
- SONYA EISENMENGER WEBER, Ph.T. *Therapeutic Exercise*
A.B., Vienna; Sc.D., Eastern Reserve
Instructor in Physical Medicine
- PAUL E. WILSON *Pediatrics*
A.B., Cornell; Sc.D., M.D., Johns Hopkins
Instructor in Pediatrics

Special Lecturers

- MARGARD BARNARD *Public Health*
A.B., Smith; M.D., Cornell; Ph.D., Johns Hopkins
Director, District Health Administration, City of New York
- HELEN BECHT *Rehabilitation*
A.B., Cincinnati; A.M., Columbia
Field Consultant, Rehabilitation Service, National Tuberculosis Association
- MARION CASS *Motor Disabilities*
A.B., University of Nebraska; A.M., Ed.D., Columbia
Associated with Winthrop M. Phelps, M.D., Baltimore
- CAROL S. COLKET, O.T.R. *Clerkship in Occupational Therapy*
Hospital Orientation
Graduate, Boston School of Occupational Therapy
Director, Occupational Therapy Department, Institute for the Crippled and Disabled
- CECILE L. CROTTY *Clerkship in Occupational Therapy*
Diploma, Posse-Nissen College of Physical Education
Recreation Instructor, New York State Psychiatric Institute and Hospital
- FREDERIC G. ELTON *Rehabilitation*
Diploma, Massachusetts State Normal School, Massachusetts Institute of Technology
Chief District Supervisor, Division of Vocational Rehabilitation, New York State Department of Education
- SHULAMITH KASTEIN *Therapeutic Exercise*
Speech Pathologist, Department of Audiology and Phonology, Columbia-Presbyterian Medical Center
- EDITH KATZ *Rehabilitation*
Vocational Counselor, New York League for the Hard of Hearing

- HELEN C. MATHIAS, O.T.R. *Clerkship in Occupational Therapy*
 A.B., Montclair Teachers College; Graduate, Philadelphia School of Occupational Therapy
 Supervisor, Occupational Therapy, Bellevue Hospital
- DOREEN POLLACK *Therapeutic Exercise*
 Speech and Hearing Therapist, Department of Audiology and Phonology, Columbia-Presbyterian
 Medical Center
- MARY JANE PRESTON *Recreation*
 Graduate in Physical Education, Michigan State Normal
 Recreation Instructor, Pilgrim State Hospital, West Brentwood, N. Y.
- VIRGINIA SCULLIN, O.T.R. *Principles and Practice of Occupational Therapy*
 Graduate, Philadelphia School of Industrial Arts
 Director of Occupational Therapy, New York State Department of Mental Hygiene
- JOSEPH EARL SNYDER *Ethics*
 A.B., Nebraska; M.D., Pennsylvania
 Administrative Assistant, In Charge of Professional Services, Presbyterian Hospital
- MARGUERITE VAUGHAN, O.T.R. *Principles and Practice of Occupational Therapy*
Clerkship in Occupational Therapy, Hospital Orientation
 A.B., Randolph-Macon Woman's College; A.M., Columbia
 Senior Occupational Therapist, New York State Psychiatric Institute and Hospital
- HELEN P. WHITE, O.T.R. *Principles and Practice of Occupational Therapy*
Clerkships in Occupational Therapy, Hospital Orientation
 A.B., University of Michigan; A.M., New York University; Graduate, Philadelphia School of Occupational Therapy
 Director, Occupational Therapy, Columbia-Presbyterian Medical Center

OCCUPATIONAL THERAPY

Occupational therapy is the practice of medically prescribed treatment in the form of supervised activity for persons injured in body or mind by accident or disease. Creative and manual arts, recreational activities, educational pursuits, and pre-industrial training are the concern of the therapist participating in modern occupational therapy programs today as they help toward the physical, mental, social, and economic adjustment of the patient.

Occupational therapy has grown and expanded rapidly as an aid to recovery and a guide to vocational rehabilitation of both civilians and service personnel due to impetus from the two World Wars. Occupational therapy is filling an increasingly important role in the postwar program.

A Bachelor of Science degree in occupational therapy is offered upon completion of the two-year training course. Candidates for admission to this course must present a minimum of sixty liberal arts credits.

A Certificate in Occupational Therapy is awarded to students who already have a Bachelor's degree upon completion of seventeen months of full-time training as outlined.

The curriculum consists of classroom work devoted to courses in the biological, social, and clinical sciences providing a scientific, medical, and theoretical background together with courses in the techniques of creative arts, recreational therapy, educational therapy, and prevocational training as they enter into the actual practice of occupational therapy. In addition to theoretical classroom instruction, students observe treatment procedures in the Occupational Therapy units of the Columbia-Presbyterian Medical Center, the Institute for the Crippled and Disabled, and the New York State Psychiatric Institute and Hospital. A program of student clerkships in conjunction with the same institutions permits students to study treatment problems of specific diagnostic classifications as they are introduced in the medical lecture series, by means of the case study and laboratory method. There is a nine-month period of clinical practice in teaching hospitals under supervision of the University.

The courses described in this Announcement meet the requirements set forth by the American Occupational Therapy Association and by the Council on Medical Education and Hospitals of the American Medical Association, as published in their *Essentials of an Acceptable School of Occupational Therapy*, which regulates the standards by which schools are accredited. Graduates of both the Degree course and the Certificate course are eligible for the examination leading to admission to the Directory of Registered Occupational Therapists maintained by the American Occupational Therapy Association. This examination is held throughout the country at specified periods during the year. Admission to the Directory is the certification of a therapist to practice.

Admission Requirements

Students will be admitted in September. Applicants for admission must be between the ages of nineteen and thirty-five years, must be graduates of approved high schools, and must satisfy one of the following requirements:

- A. *Candidates for the Degree.* Students who have satisfactorily completed at least two years of work in a college approved by Columbia University may register for the regular course to be completed in two years (twenty-five calendar months). The two years in liberal arts required for admission on this basis, sixty semester credits, should include a year of college science, at least one semester in general psychology, and one semester in sociology.

B. Candidates for the Certificate. Students who hold a baccalaureate degree acceptable to Columbia University may register on advanced standing, completing the course in seventeen months—eight months theoretical training and nine months in clinical practice. Courses in natural sciences, including chemistry or biology, psychology, and sociology, should be included in the college courses.

NOTE: Graduates with accredited professional training in fields closely related to occupational therapy, such as nurses, may be admitted to the advanced standing program.

Admission Procedure

Forms to be used in making application for admission may be obtained by writing to the Occupational Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y. Such forms should be filed several months in advance of the time at which students wish to begin their studies.

Candidates for the professional courses must be between nineteen and thirty-five years of age. Demands made on the physical endurance and emotional stamina of the therapist require a record of good health.

While occupational therapy is a profession of interest primarily to women, there are an increasing number of positions in the field for which it is desirable to have male therapists. For this reason a limited number of men are admitted to the professional courses, depending upon individual qualifications.

Estimated Expenses

Following is an itemized estimate of expenses of attendance in the courses in occupational therapy.

<i>University Expenses</i>	<i>Degree Course</i>	<i>Advanced Standing Course</i>
Tuition	\$1,200	\$600
University fees	50	30
Clinical Fee	10	10
Books, materials, equipment, uniforms	240	140
Health and hospital fee	40	20
Degree or Certificate application	20	10
<i>Total</i>	<i>\$1,560</i>	<i>\$810</i>
<i>Living Expenses (academic year)</i>	<i>Average</i>	<i>Minimum</i>
Room	\$360	\$230
Board	330	330
<i>Total</i>	<i>\$690</i>	<i>\$560</i>

Fees for materials and equipment in studio classes are payable at the time of registration and are subject to changes in accord with market prices.

During clinical training students spend approximately four months of the period in residence in hospitals where they receive full maintenance (room, board, and laundry). In some instances a maintenance arrangement is possible for a longer period of time.

There will be nominal transportation expenses for students in hospital affiliations outside of the local area.

COURSE OF STUDY IN OCCUPATIONAL THERAPY

An outline of the program of studies for each year of the course is given below. In the Degree course the first two years are spent on the campus in theoretical and technical study, followed by nine to twelve months devoted to clinical practice in mental, general, children's, orthopedic, and tuberculosis services or hospitals. The summer periods are utilized for required clinical practice, thereby enabling the student to complete the full course in approximately two years.

Advanced Standing students completing the course in seventeen months carry a program combining first-year and second-year courses during the one year spent on the campus, followed by nine months devoted to clinical practice.

DEGREE COURSE

Junior Year

Winter Session

		<i>Points</i>
<i>O.T. Theory 11</i>	Elementary theory of occupational therapy	2
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Psychology 33</i>	Abnormal psychology	2
<i>Ethics 39</i>	Ethics	1
<i>Physiology 55</i>	Basic human physiology	2
<i>Neuroanatomy 95</i>	Anatomy of the nervous system	1
<i>Anatomy 155</i>	Anatomy	3
<i>O.T. Fine Arts 31</i>	Elementary weaving	2
<i>O.T. Fine Arts 13</i>	General crafts	2
<i>O.T. Fine Arts 163</i>	Elementary woodwork	2
		18

Spring Session

<i>O.T. Theory 12</i>	Theory of occupational therapy	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Neurology 106</i>	Clinical neurology	2
<i>Recreation 170</i>	Recreation techniques for the disabled	2
<i>T.C. Biology 253b</i>	Muscles, bones, and joints	1
<i>T.C. Fine Arts 101T</i>	Fundamentals of design	2
<i>O.T. Fine Arts 12</i>	Needlecrafts	3
<i>O.T. Fine Arts 14</i>	General crafts	3
<i>O.T. Clerkship 2</i>	Psychiatric	2

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June, July, and August: Clinical practice in psychiatry

Senior Year

Winter Session

		Points
<i>O.T. Theory</i> 21	Advanced theory of occupational therapy	2
<i>Psychology</i> 45	Child development	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>Kinesiology</i> 105	Practical and applied kinesiology	2
<i>Motor Disabilities</i> 121	Techniques for motor disabilities	2
<i>O.T. Fine Arts</i> 27	Pottery	2
<i>O.T. Fine Arts</i> 105	Interpretive design	2
<i>O.T. Fine Arts</i> 165	Advanced woodwork	2
<i>O.T. Clerkship</i> 3	Medicine and surgery	2
		18

Spring Session

<i>O.T. Theory</i> 24	Application to physical injuries	2
<i>O.T.</i> 118	Rehabilitation	2
<i>Clinical Subjects</i> 102	Orthopedics, pediatrics, public health	2
<i>Exercise</i> 112	Therapeutic exercise	2
<i>O.T. Graphic Arts</i> 1R	Art of hand printing	2
<i>O.T. Fine Arts</i> 18	Leather	2
<i>O.T. Fine Arts</i> 32	Advanced weaving	2
<i>O.T. Fine Arts</i> 168	Metalwork and jewelry	2
<i>O.T. Clerkship</i> 4	Physical disabilities	2
		18

July-January: Six months of clinical practice in specified areas of service

ADVANCED STANDING COURSE

Winter Session

<i>O.T. Theory</i> 11	Elementary theory of occupational therapy	2
<i>Physiology</i> 55	Basic human physiology	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>Kinesiology</i> 105	Practical and applied kinesiology	2
<i>Anatomy</i> 155	Anatomy	3
<i>O.T. Fine Arts</i> 15	General crafts and needlecrafts	3
<i>O.T. Fine Arts</i> 17	Leather	1
<i>O.T. Fine Arts</i> 27	Pottery	2
<i>O.T. Fine Arts</i> 167	Woodwork	2
		19

*Spring Session**Points*

<i>O.T. Theory 12</i>	Theory of occupational therapy	2
<i>O.T. Theory 24</i>	Application to physical injuries	2
<i>O.T. 118</i>	Rehabilitation	2
<i>Clinical Subjects 102</i>	Orthopedics, pediatrics, public health	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Neurology 106</i>	Clinical neurology	2
<i>O.T. Graphic Arts 1R</i>	Art of hand printing	1
<i>O.T. Fine Arts 34</i>	Weaving	2
<i>O.T. Fine Arts 106</i>	Interpretive design	2
<i>O.T. Fine Arts 168</i>	Metalwork and jewelry	2

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Attendance at a weekly seminar is required of all Advanced Standing students during the Winter and Spring Sessions. Discussions in this seminar are concerned with advanced theory and principles and practice of occupational therapy.

July-April: Nine months of clinical practice in specified areas of service

HOSPITALS AND AGENCIES AFFILIATED FOR CLINICAL TRAINING

The nine to twelve months of clinical training consist of full-time practical experience in well-organized and carefully supervised Occupational Therapy Departments under the immediate direction of registered occupational therapists. Clinical training shall be completed within one year following termination of academic work. During this period students attend lectures, clinics, staff meetings, and orientation in related treatment departments, conduct special case studies, and obtain practical experience in special therapeutics, such as physical education, educational therapy, and prevocational therapy.

BONNIE BURN SANATORIUM, Scotch Plains, N. J.

John E. Runnells, M.D., *Superintendent*

Miss Grace Cassidy, O.T.R., *Director of Occupational Therapy*

BRATTLEBORO RETREAT, Brattleboro, Vermont

J. Butler Tompkins, M.D., *Superintendent*

Miss Hope Severance, O.T.R., *Director of Occupational Therapy*

THE CHILDREN'S HOSPITAL, Buffalo, N. Y.

Moir P. Tanner, *Superintendent*

Miss Edith Ann Meyers, O.T.R., *Director of Occupational Therapy*

CHILDREN'S REHABILITATION INSTITUTE, Cockeysville, Maryland

Winthrop M. Phelps, M.D., *Medical Director*

Miss Ruth Brunyate, O.T.R., *Director of Occupational Therapy*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N. Y.

John S. Parke, *Executive Vice President*

Mrs. Helen P. White, O.T.R., *Chief Occupational Therapist*

COMMUNITY WORKSHOP, Providence, R. I.

Mrs. Iris W. Booth, *Executive Secretary*

Miss H. Elsbeth Harrison, O.T.R., *Director of Occupational Therapy*

CONNECTICUT STATE HOSPITAL, Middletown, Connecticut

Edgar C. Yerbury, M.D., *Superintendent*

Mrs. Alice M. Rogers, O.T.R., *Supervisor of Occupational Therapy*

CURATIVE WORKSHOP, PHILADELPHIA SCHOOL OF OCCUPATIONAL THERAPY, Philadelphia,
Pennsylvania

Miss Clare S. Spackman, O.T.R., *Director*

EMORY UNIVERSITY HOSPITAL, Atlanta, Georgia

Service Guild Curative Workshop

Robert L. Bennet, M.D., *Medical Director*Miss Martha Schnebly, O.T.R., *Director of Occupational Therapy*

FAIRFIELD STATE HOSPITAL, Newtown, Connecticut

William F. Green, M.D., *Superintendent*Miss Bertha J. Piper, O.T.R., *Director of Occupational Therapy*

GALLINGER MUNICIPAL HOSPITAL, Washington, D. C.

Crippled Children's Clinic

Alvin R. Sweeney, M.D., *Superintendent*Mrs. Helen N. Cromartie, O.T.R., *Director of Occupational Therapy*

GERMANTOWN DISPENSARY AND HOSPITAL, Philadelphia, Pennsylvania

W. T. Sherman Thorndike, M.D., *Managing Director*Miss Alice Letchworth, O.T.R., *Director of Occupational Therapy*

HOSPITAL FOR SPECIAL SURGERY, New York, N. Y.

F. Wilson Keller, *Director*Miss Doris Nichols, O.T.R., *Director of Occupational Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N. Y.

Colonel John N. Smith, Jr. *Director*Mrs. Carol S. Colket, O.T.R., *Director of Occupational Therapy*

MONTEFIORE HOSPITAL—COUNTRY SANATORIUM, Bedford Hills, N. Y.

Arthur Eisenberg, *Rehabilitation Executive*Mrs. Dorothy Sebesta, O.T.R., *Chief Occupational Therapist*

MOUNT MORRIS TUBERCULOSIS HOSPITAL, Mount Morris, N. Y.

Arthur M. Stokes, M.D., *Director*Mrs. Bertha Skov, O.T.R., *Director of Occupational Therapy*

NEW YORK CITY DEPARTMENT OF HOSPITALS

Bellevue Hospital

Miss Helen C. Mathias, O.T.R., *Supervisor of Occupational Therapy*

City Home for the Blind

Miss Grace Hildenbrand, O.T.R., *Supervisor of Occupational Therapy*

City Hospital

Mrs. Francis O'Brien, O.T.R., *Supervisor of Occupational Therapy*

Goldwater Memorial Hospital

Miss Frances E. Hecss, O.T.R., *Supervisor of Occupational Therapy*

Sca View Hospital

Miss Julia C. Olivo, O.T.R., *Supervisor of Occupational Therapy*

Triboro Hospital

Miss Gertrude Wait, O.T.R., *Supervisor of Occupational Therapy*

NEW YORK HOSPITAL, New York, N. Y.

Children's Clinic

S. Z. Levine, M.D., *Pediatrician in Chief*

Miss Evelyn Wolff, O.T.R., *Director of Occupational Therapy*

Payne Whitney Psychiatric Clinic

Oskar Diethelm, M.D., *Psychiatrist in Charge*

Miss Mildred Spargo, O.T.R., *Director of Occupational Therapy*

NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE

Miss Virginia M. Scullin, O.T.R., *Director of Occupational Therapy*

Pilgrim State Hospital, Brentwood, L. I.

Harry J. Worthing, M.D., *Senior Director*

Miss Helen Hedges, O.T.R., *Supervisor of Occupational Therapy*

New York State Psychiatric Institute and Hospital, New York, N. Y.

Nolan D. C. Lewis, M.D., *Director*

Miss Marguerite Vaughan, O.T.R., *Senior Occupational Therapist*

NIAGARA SANATORIUM, Lockport, N. Y.

Arthur N. Aitken, M.D., *Superintendent*

Mrs. Charlotte Briggs, O.T.R., *Director of Occupational Therapy and Rehabilitation*

NEW YORK STATE REHABILITATION HOSPITAL, West Haverstraw, N. Y.

Austin J. Canning, M.D., *Director*

Miss Viola W. Svensson, O.T.R., *Director of Occupational Therapy*

REHABILITATION CENTER, LIBERTY MUTUAL INSURANCE CO., Boston, Massachusetts

Stanwood L. Hanson, *Director of Rehabilitation*

Miss Elizabeth F. Shepard, O.T.R., *Director of Occupational Therapy*

SHEPPARD AND ENOCH PRATT HOSPITAL, Towson, Maryland

Harry M. Murdock, M.D., *Superintendent*

Mrs. Marshall Price, O.T.R., *Director of Occupational Therapy*

U. S. ARMY HOSPITALS

Office of the Surgeon General, Washington, D. C.

Emma E. Vogel, Col., W.M.S.C.; *Chief, Women's Medical Specialist Corps*

Ruth A. Robinson, Lt. Col., W.M.S.C.; *Chief Occupational Therapist, Women's Medical Specialist Corps*

VETERANS ADMINISTRATION HOSPITALS

Central Office, Washington, D. C.

A. B. C. Knudson, M.D., *Chief, Physical Medicine and Rehabilitation Division*

Miss Dorothy Rouse, O.T.R., *Chief, Occupational Therapy Section*

OUTLINE OF COURSES

The University reserves the right to withdraw or modify these courses or to change the instructors as may seem wise.

NOTE.—For electives and additional courses open to students in occupational therapy, consult the Announcements of Teachers College and the School of General Studies.

DEGREE COURSE

Junior Year

Winter Session

***Occupational Therapy 11—Theory of occupational therapy.** 2 points. Miss Franciscus and special lecturers.

A general survey of the field. History and development of occupational therapy with special references to present uses and techniques. Supplementary reading and reports. Orientation visits to hospital services.

Pathology 31—Elementary studies in pathology. 1 point. Dr. King.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alteration of function resulting from these influences.

Psychology 33—Abnormal psychology. 2 points. Dr. Burgemeister.

Describes the common mental maladjustments, undertaking to explain them in terms of general principles. The social implications of abnormalities are explained.

Prerequisite: General psychology.

Ethics 39—Ethics and institutional aspects of physical medicine. 1 point. Professor Snow.

Lectures governing appropriate conduct of medical assistants in the routine of their work. Orientation of medical workers toward institutional contacts.

***Physiology 55—Basic human physiology.** 2 points. Instructor to be announced.

The dynamics of human processes, stressing the interrelationships of the various bodily systems.

Neuroanatomy 95—Anatomy of the nervous system. 1 point. Dr. Sciarra.

The anatomy of the nervous system of man, including: the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

***Anatomy 155—Human anatomy.** 3 points. Professors Elftman and Noback.

Provides the basic and related histology, anatomy, and physiology for understanding the human body, especially the muscle-joint-bone unit. It includes demonstration on the human cadaver.

O.T. Fine Arts 31—Elementary weaving. 2 points. Miss Brokaw and Mrs. Humsey.

Problems include the use of small appliances such as cards, inkle looms, and rigid string beddle looms. Plain weaving, simple harness-controlled patterns, and standard weaves. Learning the mechanism and setting up of the loom, making of patterns, and reading and writing of drafts. A museum trip.

Materials charge.

O.T. Fine Arts 13—General crafts. 2 points. Instructor to be announced.

A course in techniques of plastic fabrication, activities suitable for children, cardboard construction, and paper crafts. Consideration is given to the use of these activities in Occupational Therapy.

Materials charge.

O.T. Fine Arts 163—Elementary woodwork. 2 points. Miss Brokaw and Mrs. Humsey.

This course is designed to orient the student to the fundamentals of woodworking. By the making of small, simple projects, the student is given the opportunity of identifying the hand tools and learning the correct use and care of them. Good design, careful workmanship, and strong construction are stressed.

* Also an Advanced Standing course.

Spring Session

***Occupational Therapy 12—Theory of occupational therapy.** 2 points. Miss Franciscus and special lecturers.

Application in the major medical fields. Professional and hospital ethics and etiquette. Supplementary reading and reports. Field visits.

***Psychiatry 102—Elementary psychiatry.** 2 points. Professor Carter and Drs. Glaser and Sciarra.

Etiology and symptomatology of the major and minor psychoses including the psychoneuroses and their treatment. Lectures with clinical demonstrations.

Prerequisite: *Psychology 33* or equivalent.

***Neurology 106—Clinical neurology.** 2 points. Dr. Greene.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerve.

Recreation 170—Rehabilitation techniques for the disabled. 2 points. Miss Talmud and Miss Preston.

Practical rehabilitation techniques exemplified through lecture, demonstration, and practice in recreation with particular medical emphasis.

T.C. Biology 253b—Muscles, bones, and joints. 1 point. Miss Leavell.

For students who wish additional study on bones, joints, and muscles and experience in handling laboratory materials.

T.C. Fine Arts 101T—Fundamentals of design. 2 points. Mr. Oppen.

The fundamental principles of design and their interrelations are studied through experiences in two- and three-dimensional designing. Practice in decorative and abstract design for textiles, posters, ceramics, and other art forms. Museum and store visits, lectures, readings, and discussions.

Materials charge.

O.T. Fine Arts 12—Needlecrafts. 3 points. Miss Brokaw and Mrs. Humsey.

The course includes clothing construction, hand sewing, and various forms of embroidery and allied needlecrafts (knitting, crocheting, and tatting). Care and use of the sewing machine, pattern alterations, the principles of upholstering, slip covering, and drapery making. Hospital projects and the use of needlecrafts for prevocational training are stressed.

Students provide materials.

O.T. Fine Arts 14—General crafts. 3 points. Miss Brokaw and Mrs. Humsey.

A continuation of *O.T. Fine Arts 13*, including: cord knotting, netting, braiding, rugmaking, chair seating, chip carving, and fly-tying. Emphasis is placed on basic techniques and their use in the practice of occupational therapy. Museum visit.

Materials charge.

O.T. Clerkship 2—Psychiatric. 2 points. Miss Franciscus (coordinator).

Correlation of instruction in abnormal psychology, psychiatry, and occupational therapy theory by assigned patient work-ups in occupational therapy units. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion. Required written reports and field trips.

Senior Year*Winter Session*

Occupational Therapy 21—Advanced theory of occupational therapy. 2 points. Miss Fish and special lecturers.

Advanced study of theory and techniques in the application of occupational therapy in the various medical fields, including geriatrics, blind and deaf, and hospital and departmental organization and administration. Supplementary reading and reports.

* Also an Advanced Standing course.

Psychology 45—Child development. 2 points. Dr. Blum.

The development of children from birth to maturity. Mental, motor, social, and emotional development at various periods of growth. Consideration of the practical implications of the development and characteristics of children at various age levels with respect to the exceptional child.

***Clinical Subjects 101—General medicine and surgery.** 2 points.

General Medicine. Professor Smith.

A brief outline of the etiology of disease and the medical pathology of the various systems.

General Surgery. Dr. Findlay.

A consideration of the manifestations, complications, and convalescence in medical and surgical conditions for which occupational therapy is prescribed. Clinical lectures and case demonstrations.

***Kinesiology 105—Applied anatomy and kinesiology.** 2 points. Miss Pinkerton.

Relief of gross anatomy of skeletal and muscular systems, mechanics of bodily movement, and analysis of skills used in daily activities and in physical and occupational therapy.

Motor Disabilities 121—Theory and techniques for motor disabilities. 2 points. Professor Snow, Drs. Greene and Hoberman, and staff.

A consideration of motor disabilities due to developmental abnormalities or disease or injury to the central nervous system. Both upper and lower motor neuron affections will be considered. Techniques in the management of these patients with particular stress on the use of physical and occupational therapy in their rehabilitation.

O.T. Fine Arts 27—Pottery. 2 points. Mr. Leary.

An introduction to the vast possibilities and methods of using clay to create functional pottery with coils, with the potter's wheel, and by casting. Mold-making methods of decorating and glazing and firing of kilns are studied for practical use in teaching.

Materials charge.

O.T. Fine Arts 105–106—Interpretive design. 2 points. Miss Brokaw and Mrs. Humsey.

A course in which the principles of design are applied to media used in occupational therapy. Experience in certain art materials is given by work in block printing, stenciling, metal tooling, silk screening, and paper crafts. Museum visit.

Materials charge.

O.T. Fine Arts 165—Advanced woodwork. 2 points. Mr. Hinely.

This course is a continuation of *O.T. Fine Arts 163* and includes an introduction to the uses of power machinery.

O.T. Clerkship 3—Medicine and surgery. 2 points. Miss Franciscus (coordinator).

Correlation of instruction in medicine, surgery, pediatrics, and occupational therapy theory by assigned patient work-ups in occupational therapy units of ward situations. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion.

Required written reports and field trips.

*Spring Session****Occupational Therapy 24—Application to physical injuries.** 2 points. Miss Abbott.

Lecture and laboratory course in application of techniques in treatment of physical injuries and diseases including orthopedic and neurological disabilities. Measuring and charting of joint motion and muscle strength.

Demonstration and return demonstration by the student.

***Occupational Therapy 118—Rehabilitation.** Miss Fish (coordinator) and special lecturers.

Public and private agencies offering facilities for the physical and vocational rehabilitation of handicapped persons including guidance, training, and placement. A study of organization and legislation of state and federal vocational rehabilitation to acquaint the student with community resources, especially in terms of present-day trends.

Field trips.

* Also an Advanced Standing course.

Clinical Subjects 102—Orthopedics, pediatrics, and public health. 2 points.*Orthopedics. Dr. Knocke.**

Diseases and injuries of bones, joints, and muscles, causing impairment of function and deformity. Consideration to be given to body mechanics.

Clinical lectures and case demonstrations.

Pediatrics. Dr. Wilson.

A study of the common diseases of childhood.

Public Health. Dr. Barnard.

An orientation course to familiarize the student with phases of preventive medicine and with public health problems including communicable and contagious diseases, tuberculosis, blindness, and deafness.

Exercise 112—Therapeutic exercise. 2 or 3 points. Professor Snow and associates.

Fundamentals of muscle reeducation; the application of directed movement as an accessory in the treatment of altered function; includes practice in the treatment of crippled patients.

***O.T. Graphic Arts 1R—Art of hand printing. 1 or 2 points. Messrs. Loos and Frey.**

The fundamentals of printing and its application as therapeutic exercise for handicapped persons. Instruction in type faces, proofreading, and presswork. The laboratory affords practical application of hand typesetting, including operation of hand and foot presses. Films, demonstrations, and field trips.

***O.T. Fine Arts 17-18—Leather. 1 or 2 points. Miss Brokaw and Mrs. Humsey.**

A basic course covering the techniques of leather work as used in occupational therapy. Includes tooling, lacing, and decorating of leather. Types of leather and choice of equipment and projects for hospital practice are emphasized.

Materials charge.

O.T. Fine Arts 32—Advanced weaving. 2 points. Miss House.

Weaving on two, four, and eight harness looms. Standard and special weaves. Making of patterns and drafts, including draft reading and tie-up. Experimenting with fibers and weaves with special emphasis on color, texture, and design. Trips to museums and other institutions.

Materials charge.

O.T. Fine Arts 168—Metalwork and jewelry. 2 points. Mr. Hinely.

A course in the basic techniques of hammered metal and jewelry. Elementary principles of mechanical drawing.

Materials charge.

O.T. Clerkship 4—Physical disabilities and rehabilitation. 2 points. Miss Fish (coordinator).

Correlation of instruction in orthopedics, neurology, and rehabilitation methods by assigned patient work-ups. A rotating clinical schedule is assigned each student. Each experience is followed by a group seminar.

Required written reports and field trips.

ADVANCED STANDING COURSE*Winter Session*

All courses marked with an asterisk under Winter Session, Junior Year and Senior Year, must be taken. In addition:

O.T. Fine Arts 15—General crafts and needle crafts. 3 points. Miss Brokaw and Mrs. Humsey.

The more mechanical smaller crafts rather than the creative ones are taught in the general crafts section of this course. The needlecraft section is designed to supplement the student's knowledge and to guide her in the application of all types of needlework to hospital practice of occupational therapy.

Materials charge.

* Also an Advanced Standing course.

O.T. Fine Arts 17. See Spring Session, Senior Year.

O.T. Fine Arts 167—Woodwork. 2 points. Mr. Hinely.

A course designed to orient students in the fundamentals of woodworking and to develop a reasonable skill in the use of hand tools and finishing processes. An introduction to the use of power tools.

Materials charge.

Spring Session

All courses marked with an asterisk under Spring Session, Junior Year and Senior Year, must be taken. In addition:

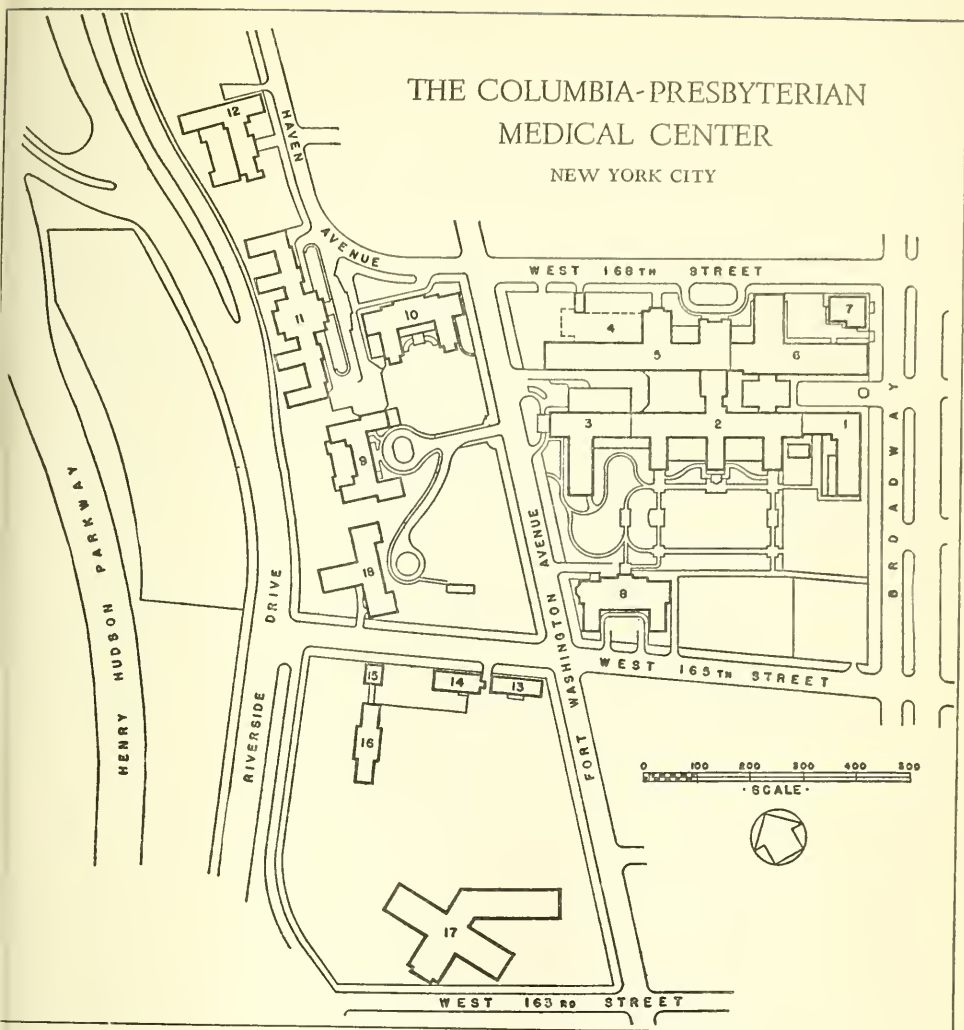
O.T. Fine Arts 34—Weaving. 2 points. Miss House.

Problems include the use of small appliances such as cards, inkle looms, and rigid and string heddle looms. Experimenting with unusual as well as standard yarns for texture and color. Plain weaving, simple harness-controlled patterns, and standard weaves. Learning the mechanisms and setting up of the loom, as well as the making of patterns and reading and writing of drafts. Trips to museums.

O.T. Fine Arts 105-106—See Winter Session, Second Year.

THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER

NEW YORK CITY



- | | |
|--|---|
| 1. Babies Hospital | 8. Institute of Ophthalmology |
| 2. Presbyterian Hospital | 9. Maxwell Hall |
| Sloane Hospital | 10. Neurological Institute |
| New York Orthopaedic Hospital | 11. New York State Psychiatric Institute and Hospital |
| 3. Harkness Pavilion | Psychanalytic Clinic |
| 4. Power plant | 12. Bard Hall |
| 5. College of Physicians and Surgeons | 13, 16. Storage |
| 6. Vanderbilt Clinic | 14. Shops |
| School of Dental and Oral Surgery | 15. Housing |
| 7. Washington Heights Health and Teaching Center, New York City Department of Health | 17. Francis Delafield Hospital, New York City Department of Hospitals |
| School of Public Health | 18. Edward S. Harkness Memorial Hall |

STACKS

COLUMBIA UNIVERSITY

Columbia University

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BULLETIN OF INFORMATION

Fifty-second Series, No. 2

January 26, 1952

ANNOUNCEMENT OF COURSES
FOR

PHYSICAL THERAPISTS

OCCUPATIONAL THERAPISTS

COLLEGE OF PHYSICIANS AND SURGEONS



FOR THE WINTER AND SPRING SESSIONS

1952-1953

COLUMBIA-PRESBYTERIAN MEDICAL CENTER

630 WEST 168TH STREET

NEW YORK 32, N.Y.

Columbia University Bulletin of Information

Fifty-second Series, No. 2

January 26, 1952

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The series includes the Report of the President to the Trustees and the Announcements of the several Colleges and Schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon written application to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N.Y. Copies may be obtained in person from the Office of the Secretary, 213 Low Memorial Library.

C. U. P. 9,500—1952

INFORMATION

Application blanks and further information about the courses in this Announcement may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y. The office is open weekdays 9 A.M. to 5 P.M.; Saturdays by appointment. Telephone: WAdsworth 3-2500, extension 7941.

WINTER SESSION

September 25, 1952, through January 29, 1953
Registration—September 22 through 24

SPRING SESSION

February 4, 1953, through May 28, 1953
Registration—February 2 through 3

PRINTED FOR THE UNIVERSITY BY
COLUMBIA UNIVERSITY PRESS





Columbia-Presbyterian Medical Center

Columbia University

in the City of New York

ANNOUNCEMENT OF

COURSES FOR

PHYSICAL THERAPISTS AND OCCUPATIONAL THERAPISTS

FOR THE WINTER AND SPRING SESSIONS

1952-1953



COLUMBIA-PRESBYTERIAN MEDICAL CENTER

630 WEST 168TH STREET

NEW YORK 32, N.Y.

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ACADEMIC CALENDAR

The complete Academic Calendar for the year 1952-1953 may be obtained from the Secretary of the University.

The University maintains three sessions during the year: the Winter Session, beginning September 25 and ending January 29; the Spring Session, beginning February 4 and ending May 28; and the Summer Session of six weeks.

1952

July	2	Wednesday. Registration in Summer Session begins.
July	4	Friday. Independence Day. Holiday.
July	5	Saturday. Last day for registration in Summer Session for students desiring credit without payment of a late fee.
July	7	Monday. Fifty-third Summer Session begins.
July	8	Tuesday. Last day for making changes in program for the Summer Session.
August	1	Friday. Last day for filing application for deficiency and special examinations to be held in September. The privilege of later application may be granted on payment of a late fee.
August	15	Friday. Final examinations in Summer Session. Fifty-third Summer Session ends.
September	11	Thursday. Examinations for deficient students begin.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE WINTER SESSION

September	22	Monday, through September 24, Wednesday. For students in Physical Therapy and Occupational Therapy courses.
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September	24	Wednesday. Opening exercises, 199th year.
September	25	Thursday. Classes begin.
October	1	Wednesday. Last day for filing application or renewal of application for the degree of B.S. and for the certificate to be conferred in October. The privilege of later application may be granted on payment of a late fee.
October	4	Saturday. Last day for making changes in program.
October	12	Sunday. Columbus Day. October 13, Monday not a University holiday.
November	4	Tuesday. Election Day. Holiday.
November	12	Wednesday. Midterm date, Winter Session.
November	25	Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
November	27	Thursday, through November 30, Sunday. Thanksgiving holidays.
December	1	Monday. Last day for filing application or renewal of application for the degree of B.S. and for the certificate to be awarded in February. The privilege of later application may be granted on payment of a late fee.
December	22	Monday, through January 4, 1953, Sunday. Christmas holidays.

1953

January	18	Sunday. Annual Commemoration Service in St. Paul's Chapel.
January	19	Monday, through January 29, Thursday. Midyear examinations.
January	29	Thursday. Winter Session ends.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES)
FOR THE SPRING SESSION

1953

February 2 Monday, through February 3, Tuesday. For students in Physical Therapy and Occupational Therapy courses.

February 4 Wednesday. Spring Session begins. Classes begin.

February 12 Thursday. Lincoln's Birthday. Not a University holiday.

February 14 Saturday. Last day for making changes in program.

February 22 Sunday. Washington's Birthday. February 23, Monday, not a university holiday.

March 2 Monday. Last day for filing application or renewal of application for the degree of B.S. and for the certificate to be conferred in June. The privilege of later application may be granted on payment of a late fee.
Last day for filing application for deficiency and special examinations to be held in April. The privilege of later application may be granted on payment of a late fee.

March 23 Monday. Midterm date, Spring Session.

March 29 Sunday, through April 5, Sunday. Easter holidays.

April 13 Monday, through April 17, Friday. Deficiency examinations.

May 18 Monday, through May 28, Thursday. Final examinations.

May 28 Thursday. Spring Session ends.

May 30 Saturday. Memorial Day. Holiday.

COMMENCEMENT, MAY 31 TO JUNE 2

May 31 Sunday. Baccalaureate Service.

June 2 Tuesday. Conferring of degrees.

July 1 Wednesday. Registration in Summer Session begins.

July 3 Friday. Last day for registration in Summer Session for students desiring credit without payment of a late fee.

July 4 Saturday. Independence Day. Holiday.

July 6 Monday. Fifty-fourth Summer Session begins.

July 7 Tuesday. Last day for making changes in program for the Summer Session.

August 1 Saturday. Last day for filing application for deficiency and special examinations to be held in September. The privilege of later application may be granted on payment of a late fee.

August 14 Friday. Final examinations in Summer Session.
Fifty-fourth Summer Session ends.

PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

This Announcement describes two separate training courses offered by Columbia University: Physical Therapy and Occupational Therapy. These courses are given at the Columbia-Presbyterian Medical Center under the auspices of the Department of Physical Medicine and Rehabilitation. The courses of study are approved by the Council on Medical Education and Hospitals of the American Medical Association and prepare the student to meet the qualifications for registration in either physical or occupational therapy.

The information immediately following is concerned with general University regulations which apply to all students. For complete details on each of the two training programs, refer to the appropriate section in this Announcement.

APPLICATION FOR ADMISSION

An application form must be filled out and accepted well in advance of the time the student expects to begin his studies. See pages 17 and 32.

REGISTRATION AND EXPENSES

REGISTRATION

Before attending any University course, every student must present himself at the office of the Registrar and file a registration form, giving such information as may be required. The office is situated on the second floor of the College of Physicians and Surgeons, 630 West 168th Street, and is open from 9 A.M. to 5 P.M. daily except Saturdays and holidays, and on Saturday from 9 A.M. to 12 M. The periods set aside for registration of students in physical and occupational therapy for the Winter and Spring Sessions of the academic year 1952-1953 are as follows:

Winter Session: September 22 through September 24.

Spring Session: February 2 through February 3.

Approval of Program.—Programs for all students in physical and occupational therapy must be approved before registration by the Directors in physical and occupational therapy. All changes of program must also be approved by the Directors, and no change of program will be permitted beyond the second Saturday after the opening of the Winter Session or Spring Session (see Academic Calendar) except by special permission.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. Registration will not be complete until such fees are paid, and no reduction is made for late registration. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following fees are prescribed for physical and occupational therapy:

a) University Fee

For each Winter or Spring Session or any part thereof, for students enrolled for:	
From one to four points, inclusive	\$ 5.00
More than four points to nine points, inclusive	10.00
More than nine points	20.00
For each Summer Session or any part thereof	7.00
For any period not longer than a Winter or Spring Session:	
For persons either engaged in research or desiring to use other University facilities	20.00

b) Tuition Fee

For all courses except where a special fee is fixed, per point	25.00
With the proviso that the fee for a Winter or Spring Session in the case of a student enrolled for fifteen or more points in physical therapy or in occupational therapy shall be	375.00

c) Student Health and Hospitalization Fee

This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospitalization insurance and to pay part of the cost of the student health service. For all students, per academic year	20.00
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d) Fee for Application

For any degree	20.00
For any certificate	10.00

e) Privileges

Late registration or late application for a degree or certificate or for deficiency or special examinations	3.00
Renewal of application for any degree or certificate	1.00
Deficiency and special examinations	3.00

f) Rebates

The University fee and the fee for application for any degree or certificate shall not be subject to rebate.

After the last day of the period provided for change of course, as announced in the Academic Calendar, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

For the ultimate date for the completion of registration and for filing an application for a special examination, or for a certificate, without the payment of an additional fee, see the Academic Calendar.

A deposit for the use of lockers, keys, apparatus, material, and the like is required of students in certain schools and courses.

Acceptance Fee.—Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Director that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if the applicant does not register for the courses for the following academic year, it will not be returned. If he registers in the Courses for Physical and Occupational Therapy in the class to which he has been admitted, the amount of the acceptance fee will be deducted from his tuition fees.

GENERAL REGULATIONS

RESIDENCE

All women students under twenty-one years of age, who are not living at home or with relatives, are required to secure approval of their residence from the Directors of Training Courses, Office of Physical and Occupational Therapy, College of Physicians and Surgeons. Detailed information concerning desirable accommodations may be obtained from this office.

STUDENT HEALTH SERVICE

In accordance with the requirements of the American Medical Association, a physical examination (including tuberculin tests) will be given each student in the professional courses during the first session of attendance. Further physical examinations will be given during the training period, whenever it is deemed advisable.

Students requiring hospitalization will be taken care of either in the wards of the Medical Center, or elsewhere, under a hospitalization insurance policy.

Daily office hours are held for sick students by the Student Health Service, Room 2-200, Vanderbilt Clinic. Members of the Health Service are available to attend ill students if they live near the Medical Center.

STUDENTS

Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

Students prevented by conscientious scruples from complying with academic requirements which may be fulfilled only upon days set apart by their church for religious observance should make application to the Office of Physical and Occupational Therapy for an equitable solution.

ABSENCES

It is a student's duty to attend punctually each class or laboratory exercise in each course. For credit toward the certificate and degree, regular attendance is required in addition to the proficiency attested by classwork and examination.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved powers of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Director. Students withdrawing are required to notify the Registrar immediately.

The Director may, for reasons of weight, grant a leave of absence to a student in good standing.

RESIDENCE HALLS AND OTHER FACILITIES

RESIDENCE HALLS

The Residence Halls of the University are located on or immediately adjacent to the Campus and afford easy access to libraries and classrooms as well as comfortable accommodations in an environment conducive to academic work. They serve also as a center of campus life and provide for students companionship with other students of like interests. The University, therefore, desires its students to live whenever possible in Residence Halls.

Within several of the Residence Halls are dining rooms maintained for all students and faculty of the University. The Hall infirmaries are largely for the use of those living in the Residence Halls.

Assignment of rooms is made on the session basis. Room payments are due at the beginning of each session, but in case of need other arrangements can be made.

Students coming from out of town to attend evening classes or those wishing to stay overnight at Columbia may secure accommodations by applying to the Livingston Hall office (for men) or the Johnson Hall Office (for women).

Residence Halls Announcements and application blanks for rooms may be obtained (for men) from the Men's Residence Halls Office, 125 Livingston Hall, Columbia University, New York 27, or (for women) from the Johnson Hall Office, 411 West 116th Street, New York 27. The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

Residence for Men

There are four University Residence Halls, on South Quadrangle, which have accommodations for approximately 1,684 men. Hartley Hall, Livingston Hall, and the lower floors of John Jay Hall are reserved for students in Columbia College; Furnald Hall, for law and graduate students; and the upper floors of John Jay Hall, for graduate and professional

school students. Rates for the academic year range from \$170 to \$350. There are a few rooms available at \$140 which are assigned only with the approval of the Director of the University Placement Bureau, Alumni House. Application for these accommodations should be filed with the Men's Residence Halls Office, together with the statement that application has been made to the Director of the University Placement Bureau for his approval. These lowest-priced rooms will not be assigned to students holding scholarships amounting to \$400 or more.

All rates are subject to change if costs increase greatly.

The main dining room is on the first floor of John Jay Hall. The lower John Jay Lobby leads to the Lion's Den, a grillroom (open to both men and women students) with facilities for late breakfast, lunch, and dinner.

Residence for Women

Johnson Hall is provided by the University as a residence for women students in the graduate and professional schools. A limited number of rooms are assigned to full-time undergraduate students who are matriculated for a degree. The Hall was erected and particularly designed for the comfort and convenience of women students. With its various social rooms, attractive dining room, and comfortable bedrooms, it offers pleasant conditions for University life. The rates for rooms range from \$230 to \$455 for the academic year. The rate for two meals a day, breakfast and dinner, is \$350 for the academic year. All rates are subject to change if costs increase greatly. Residents of Johnson Hall are required to take breakfast and dinner in the dining room of Johnson Hall.

OFF-CAMPUS ACCOMMODATIONS

Columbia University maintains a Registry of Off-Campus Accommodations, where the addresses of available furnished rooms in the neighborhood may be obtained. It is not possible to obtain listings by mail as these accommodations are for immediate rental; moreover it is advisable that rooms be engaged only after personal inspection. The Registry is for the use of faculty, staff, and students of the University, and each applicant must show a letter of admission or some other official Columbia correspondence to be eligible for this service. There is no charge to either the student or the landlord and all financial arrangements must be concluded between the applicant and the landlord. The Registry is located in Livingston Hall.

Women under twenty-one years of age are expected to make their selection from a special list of addresses.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge as a center for the religious and social activities of the students. On the main and upper floors, reached by the Campus entrance, are the offices of the Chaplain and his staff and of the three religious counselors. These floors also contain an auditorium, a lounge, meeting room, kitchen, and other facilities. The lower floor, entered from the Broadway side, is occupied by the offices of the University Medical Officer.

UNIVERSITY LIBRARIES

The physical and occupational therapy collection of reference books, periodicals, and pamphlets is housed in the Medical Library, which occupies parts of the three lower

floors in the College of Physicians and Surgeons building. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works, through interlibrary loans, and through its unique bibliographic service.

The Library contains approximately one hundred and sixty thousand volumes of books and journals, some five thousand pamphlets, and about two thousand lantern slides on the history of medicine. More than eighteen hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the schools of Medicine, Dentistry, Nursing, Public Health, Physical and Occupational Therapy, and in the hospitals of the Medical Center.

The libraries on Morningside Heights, containing more than two million volumes, are open to all students of physical and occupational therapy. The main collection is housed in Butler Library, and special and departmental collections are located in various other buildings on the campus. They include collections on biology, education, engineering, psychology, sociology, and other subjects related to physical and occupational therapy and supplement the special collections available in the College of Physicians and Surgeons. Books may be borrowed for home use.

Leaflets describing the collections and services of the University Libraries are available in any of the library reading rooms. The Medical Library and all other libraries post their hours of opening and closing.

THE INSTITUTE FOR THE CRIPPLED AND DISABLED

The Institute for the Crippled and Disabled, located at 400 First Avenue, is closely affiliated with Columbia University and offers broad clinical and educational facilities for the training of physical therapy and occupational therapy students. An outstanding collection of reference books, periodicals, and pamphlets on the handicapped, their problems, and their rehabilitation is housed here, available to students in Occupational and Physical Therapy at all times. An occupational therapy teaching unit, established at the Institute, is used for instruction and houses a skills library. Special equipment for the instruction of kinesiology and for the instruction and laboratory practice of massage is provided for the students in physical therapy.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 A.M. to 5:30 P.M.; Saturdays, 8:45 A.M. to 1:30 P.M.

STUDENT ACTIVITIES

The Physical and Occupational Therapy Club is the student organization in which activities of a recreational, social, and professional nature are carried on. Men and women prominent in these fields are invited to address the Club.

One of the special activities is the visual education program of movies embracing physical and occupational therapy techniques, physical restoration, and vocational aspects of rehabilitation.

Each class of students has its own organization and officers with representatives on the University Student Council.

The Columbia University Student Council, composed of elected representatives from the students of the several schools and faculties of the University, represents the students in matters affecting the student body as a whole, with the object of promoting cooperation and understanding among the students, faculty, and administration.

Graduates of the Physical and Occupational Therapy programs have Alumni Associations, which in turn are group members affiliated with the Alumni Federation of Columbia University.

Opportunities for exercise and recreation are provided.

Students are encouraged to utilize the educational and cultural opportunities offered in the City of New York.

STUDENT AID

LOAN FUNDS

Loan funds are provided in limited amount for student assistance. Application is made on a blank which may be obtained from the Bursar, Room 310, University Hall. Application for loans for the Winter Session should be made by September 15; for the Spring Session, by January 15.

EMPLOYMENT

The University Placement Bureau, located in Alumni House, is that department of the University through which men and women students and graduates are referred to suitable positions during their attendance at the University and after graduation. A booklet describing the facilities of the Placement Bureau and the more general types of employment opportunities available will be mailed upon request. Communications should be addressed to the Director of the University Placement Bureau, Alumni House, Columbia University, New York 27, N.Y.

The Physical and Occupational Therapy Office maintains a listing of positions throughout the country available to graduate therapists. Current graduates and alumni are encouraged to refer to the Office for these positions.

POSTGRADUATE OFFERING

Because of the acute shortage of trained personnel to work with the cerebral palsied, a course has been established to give specialty training in this area of disability. The course is offered in cooperation with the Coordinating Council for Cerebral Palsy in New York City, Inc., and is available to doctors, occupational therapists, and physical therapists. Three months of full-time instruction will include lectures, seminars, clinics, and clinical practice. Tuition, payable at the time of registration, is \$250. Approximate starting dates are February and September.

Further information and application forms are available from either of the following addresses:

The Coordinating Council for Cerebral Palsy in New York City, Inc.
270 Park Avenue, New York 18, N.Y.

Office of Physical and Occupational Therapy
630 West 168th Street, New York 32, N.Y.

PHYSICAL THERAPY

ADMINISTRATIVE OFFICERS

- DWIGHT D. EISENHOWER, LL.D. *President of the University*
- GRAYSON KIRK, Ph.D., LL.D. *Vice President and Provost of the University*
- WILLARD COLE RAPPLEYE, A.M., M.D., Sc.D. *Vice President in Charge of
Medical Affairs; Dean, Faculty of Medicine*
- ROBERT C. DARLING, M.D. *Professor of Physical Medicine and Rehabilitation; Executive
Officer, Department of Physical Medicine and Rehabilitation*
- WILLIAM BENHAM SNOW, M.D. . . . *Professor of Physical Medicine; Medical Director,
Training Courses in Physical and Occupational Therapy*
- ¹FLOY PINKERTON, A.M., R.P.T. *Assistant Professor and Director, Training
for Physical Therapists*
- MARY E. CALLAHAN, B.S., R.N., R.P.T. *Acting Director, Training for
Physical Therapists*

OFFICERS OF INSTRUCTION

- MARGUERITE ABBOTT, O.T.R. *Motor Disabilities*
B.S., Tufts; Graduate, Boston School of Occupational Therapy
Executive Director, Coordinating Council for Cerebral Palsy
Instructor in Training for Occupational Therapists
- EDITH H. BROKAW, O.T.R. *Practical Application*
Graduate, Philadelphia School of Occupational Therapy
Instructor in Training for Occupational Therapists
- BESSIE B. BURGEMEISTER *Abnormal Psychology*
A.B., A.M., Ph.D., Columbia
Research Psychologist, Department of Neurology
Research Assistant in Neurology
- MARY ELIZABETH CALLAHAN, R.N., R.P.T. *Physical Therapy Theory,
Massage, Seminar, Clerkships*
B.S., New York University
Graduate, Clinton Hospital, Clinton, Mass.; Physical Therapy, Posse Institute
Acting Director, Training for Physical Therapists
- SIDNEY CARTER *Psychiatry*
A.B., Dartmouth; M.D., Boston University
Assistant Professor of Neurology
- LOUIS J. CIZEK *Physiology*
B.S., Fordham; M.D., Columbia
Assistant Professor of Physiology
- CASSIUS LOPEZ DE VICTORIA *Practical Application*
M.D., New York Medical College
Instructor in Medicine; Director, Physical Therapy, St. Clare's Hospital
- HERBERT O. ELFTMAN *Anatomy and Physiology*
A.B., A.M., California; Ph.D., Columbia
Associate Professor of Anatomy

¹ On leave 1952-1953.

- MARIE LOUISE FRANCISCUS, O.T.R. *Principles and Practice of Occupational Therapy*
 B.S., Ohio State; Graduate, Philadelphia School of Occupational Therapy
 Assistant Professor and Director, Training for Occupational Therapists
- GILBERT H. GLASER *Psychiatry*
 A.B., M.D., Columbia
 Senior Research Psychiatrist, New York State Psychiatric Institute
 Associate in Neurology
- LEONARD J. GOLDWATER *Practical Application*
 A.B., Michigan; M.D., Sc.D., New York University; M.S., Columbia
 Professor of Industrial Hygiene
- JUSTIN L. GREENE *Motor Disabilities, Neurology*
 A.B., Columbia; M.D., Paris
 Assistant Attending Neurologist, Neurological Institute
 Instructor in Neurology
- ARNO DAVID GUREWITSCH *Massage, Practical Application*
 M.D., Basel
 Instructor in Medicine; Assistant Attending Physician, Presbyterian Hospital
- MORTON HOBERMAN *Motor Disabilities, Therapeutic Exercise*
 B.S., New York University; M.B., M.D., Wayne
 Assistant Physician in charge of Physical Therapy, New York State Rehabilitation Hospital
 Chief of Physical Therapy, Vanderbilt Clinic, Columbia-Presbyterian Medical Center
 Instructor in Medicine
- PAUL FREDERICK ADAM HOEFER *Physical Therapy Theory*
 A.M., Ph.D., Berlin; M.D., Wurzburg
 Associate Professor of Neurology
- WILLIAM A. HORWITZ *Physical Therapy Theory*
 M.D., Albany Medical College; Sc.D., Columbia
 Assistant Clinical Professor of Psychiatry
- VIRGINIA KILBURN *Principles and Practice of Occupational Therapy*
 A.B., Wellesley; Certificate in Occupational Therapy, Columbia
 Associate Director, Training for Occupational Therapists
- DONALD W. KING, JR. *Pathology*
 A.B., M.D., Syracuse
 Instructor in Pathology
- FREDERICK J. KNOCKE *Orthopedics*
 A.B., Princeton; M.D., Cornell
 Instructor in Orthopedic Surgery
- MARION D. LAIRD *Practical Application*
 B.A., Queens, Ontario; M.D., Toronto
 Instructor in Obstetrics and Gynecology, Department of Obstetrics and Gynecology, Presbyterian Hospital
- HARRISON L. McLAUGHLIN *Practical Application*
 M.D., Queens University Medical College
 Professor of Clinical Orthopedic Surgery
- JAMES LOWRY MILLER *Practical Application*
 A.B., North Carolina, M.D., Pennsylvania
 Associate Clinical Professor of Dermatology
- JOSEPH MOLDAVER *Physical Therapy Theory*
 M.D., Brussels
 Associate in Neurology, College of Physicians and Surgeons

- CHARLES ROBERT NOBACK *Anatomy*
B.S., Cornell; M.S., New York University; Ph.D., Minnesota
Assistant Professor of Anatomy
- ¹FLOY PINKERTON, R.P.T. *Kinesiology, Massage, Relaxation,
Therapeutic Exercise, Seminar*
B.S., Stephen F. Austin State Teachers College; A.M., Columbia
Assistant Professor and Director, Training for Physical Therapists
- BERTRAM J. SANGER *Practical Application*
A.B., Texas; M.D., Johns Hopkins
Assistant Clinical Professor of Medicine
- DANIEL SCIARRA *Neuroanatomy*
A.B., M.D., Harvard
Assistant Professor of Neurology
- ALAN DEFORREST SMITH *Adviser in Orthopedics*
A.B., M.D., Columbia
Professor of Orthopedic Surgery
- ESTHER E. SNELL, R.N., R.P.T. *Instructor in Training Courses for
Physical Therapists*
B.S., R.N., Ohio State; M.S., Michigan; Ed.D., Stanford
- WILLIAM BENHAM SNOW *Therapeutic Exercise, Ethics,
Practical Application, Physical Therapy Theory, Motor Disabilities*
M.D., Long Island College of Medicine
Medical Director, Training Courses in Physical and Occupational Therapy
Professor of Physical Medicine
- WALTER ALEXANDER STEWART *Psychiatry*
A.B., Dartmouth; M.D., Johns Hopkins
Research Assistant in Psychiatry
- BLANCHE TALMUD, R.P.T. *Rehabilitation*
B.S., New York University; Graduate, School of Physical Therapy, New York University
Supervising Physical Therapist, Institute for the Crippled and Disabled; Lecturer in Physical Therapy
- SONYA EISENMENGER WEBER, Ph.T. *Therapeutic Exercise*
A.B., Vienna; Sc.D., Eastern Reserve
Instructor in Physical Medicine
- JEROME P. WEBSTER *Practical Application*
A.B., M.S., Trinity; M.D., Johns Hopkins
Professor of Clinical Surgery
- DEGRAAF WOODMAN *Practical Application*
B.S., M.D., Cornell
Clinical Professor of Otolaryngology

SPECIAL LECTURERS

- ARTHUR ABRAMSON *Practical Application*
B.S., M.D., C.M., McGill
Chief, Physical Medicine Rehabilitation Service, Bronx Veterans Administration Hospital
- JOSEPHINE M. BURKE *Swimming*
A.B., Hunter; A.M., Columbia
Assistant Professor of Physical Education, Hunter College

¹ On leave 1952-1953.

- ELIZABETH M. CARRICK *Social Case Work and Records*
B.S., Ohio State; A.M., New York School of Social Work
Instructor, New York School of Social Work
- MARIAN CASS *Motor Disabilities, Speech*
A.B., Nebraska; A.M., Ed.D., Columbia
Associated with Dr. Winthrop M. Phelps
- MARJORIE FISH, O.T.R. *Principles and Practice of Occupational Therapy*
A.B., Swarthmore; Graduate, Boston School of Occupational Therapy
Executive Director, American Occupational Therapy Association
- EDITH HANSEN, R.N., P.H.N., R.P.T. *Physical Therapy Theory*
Graduate, General Lutheran Hospital, Sioux City, Iowa
- EDWARD F. HARTUNG *Practical Application*
A.B., M.D., Columbia
Assistant Clinical Professor of Medicine, New York Post-Graduate Medical School and Hospital
- MARGARET HEBERT, R.N., R.P.T. *Bandaging, Physical Therapy Theory,
Therapeutic Exercise, Hydrotherapy*
R.N., Quincy City Hospital, Quincy, Mass., R.P.T., Columbia
- JETTA HENDIN, R.P.T. *Therapeutic Exercise*
B.S., Manitoba
Physical Therapist, Columbia-Presbyterian Medical Center
- SHULAMITH KASTEIN *Therapeutic Exercise*
Speech Pathologist, Department of Audiology and Phonology, Presbyterian Hospital
- HENRY KESSLER *Practical Application*
A.B., M.D., Cornell; A.M., Ph.D., Columbia
Director, The Kessler Institute for Rehabilitation, West Orange, N.J.
- JACOB MEISLIN *Practical Application*
B.S., City College of New York; M.D., Lausanne
Chief, Physical Medicine and Rehabilitation, Franklin Delano Roosevelt Hospital, Montrose, N.Y.
- MARY JANE PRESTON *Recreation*
Graduate in Physical Education, Michigan State Normal
Recreation Supervisor, Pilgrim State Hospital, Brentwood, N.Y.
- JOSEPHINE L. RATHBONE, R.P.T. *General*
A.B., A.M., Wellesley; Ph.D., Columbia
Associate Professor of Health and Physical Education, Teachers College
- FRANK KNAPP SAFFORD, JR. *Physical Therapy Theory, Radiation*
M.D., Vienna
Assistant Professor of Physical Medicine and Rehabilitation, New York Medical College
- DOUGLAS SJOBERG *Physics*
A.B., A.M., California
- BEVERLY CHEW SMITH *Practical Application*
M.D., Virginia
- JOSEPH EARL SNYDER *Ethics*
A.B., Nebraska; M.D., Pennsylvania
Administrative Assistant In Charge of Professional Services, Presbyterian Hospital

PHYSICAL THERAPY

Physical therapy is the treatment of disease and injury by the use of such natural agents as sunshine, water, exercise, massage, mechanical forces, and electricity. Functional rehabilitation of persons injured by disease or accident is a pressing medical need; the skillful application of physical therapy following injury will do much to shorten the time of disability. The ultimate aim of any treatment is the maximal rehabilitation and adjustment of the patient. The success of this type of treatment is dependent upon the therapist's knowledge, care, and precision in the administration of the intelligent medical prescription.

The course of study here described gives the student a basic knowledge of the normal functions of the human body and of the pathology of those diseases and injuries in which physical therapy can be helpful in the optimum rehabilitation of the patient.

The curriculum is planned to serve the educational needs of students working towards the Bachelor of Science degree or towards the Certificate of Proficiency in Physical Therapy.

The Bachelor of Science degree is offered upon completion of the full Junior and Senior program. This program is superimposed upon two years of liberal arts with a minimum of sixty semester hours including the proper science prerequisites.

The Certificate of Proficiency in Physical Therapy is offered upon completion of the program prescribed for students of Advanced Standing. This program is superimposed upon the background of one of the following:

- (a) Graduation from an approved school of nursing.
- (b) At least a Bachelor's degree from an accredited college or university.

Minimum standards for approved schools of physical therapy are set by the American Medical Association through the Council on Medical Education and Hospitals and by the American Physical Therapy Association.

Graduates of either of these programs are eligible for admission to the examination of the American Registry of Physical Therapists and for membership in the American Physical Therapy Association.

ADMISSION REQUIREMENTS

Admission to the professional courses is open to qualified students from nineteen to thirty-five years of age. Students are admitted in September only. Applicants for admission must be graduates of approved high schools and must satisfy *one* of the following requirements:

Candidates for the degree course of study:

Two years or sixty semester hours of credit in the liberal arts, with six semester hours in biological science, four semester hours in physics and/or chemistry, and six semester hours in psychology.

(The Bachelor of Science degree with a major in Physical Therapy is awarded.)

Candidates for the advanced standing course of study:

- (a) Graduation from an approved college with at least a Bachelor of Science or Bachelor of Arts degree with science requirements as follows:

Eight semester hours in biological science

Six semester hours in physics and/or chemistry

Ten semester hours in social science (of which six must be in psychology)

(b) Graduation from an approved school of nursing.

(The Certificate of Proficiency in Physical Therapy is awarded.)

ADMISSION PROCEDURE

Forms to be used in making application for admission may be obtained by writing to the Physical Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. Such forms should be filed several months in advance of the time at which students wish to begin their studies.

ESTIMATED EXPENSES

Following is an itemized estimate of expenses of attendance in the courses in physical therapy:

<i>University Expenses</i>	<i>Degree Course</i>	<i>Advanced Standing Course</i>
Tuition	\$1,600	\$ 850
University fees	94	47
Books, materials, equipment, uniforms	90	75
Health and hospital fee	40	20
Degree or Certificate application	20	10
<i>Total</i>	\$1,844	\$1,002
<i>Living Expenses (academic year)</i>	<i>Average</i>	<i>Minimum</i>
Room	\$400	\$320
Board	350	350
Summer Clinical	125	100
Subway and bus fares (within program)	50	50
<i>Total</i>	\$925	\$820

COURSE OF STUDY IN PHYSICAL THERAPY

An outline of the program of studies for each year of the course is given below. This course of study meets the requirements of, and is approved by, the Council on Medical Education and Hospitals of the American Medical Association.

DEGREE COURSE

JUNIOR YEAR

Winter Session

		<i>Points</i>
<i>Anatomy</i> 155	Anatomy and physiology	3
<i>Physics</i> 111	Physics applied to physical medicine	2
<i>Pathology</i> 31	Elementary studies in pathology	1
<i>Ethics</i> 39	Ethics and institutional aspects of physical therapy	1
<i>Massage</i> 3	Theory and practice	2
<i>Psychology</i> 33	Abnormal psychology	2
<i>Education</i> 41R	Introduction to records and case work	1
<i>Neuroanatomy</i> 95	Anatomy of the nervous system	1
<i>Relaxation</i> 143	Theory and practice of relaxation	2
		15

Spring Session

<i>Radiation</i> 10	Theory and practice of heat application and radiation	2
<i>Hydrotherapy</i> 18	Theory and practice of hydrotherapy	1
<i>Orthopedics</i> 136	General survey of orthopedics	2
<i>Exercise</i> 112	Therapeutic Massage	3
<i>Clinical Instruction and Experience in Massage</i>		2
<i>Psychiatry</i> 102	Elementary psychiatry	2
<i>Neurology</i> 106	Elementary neurology	2
<i>Swimming</i> 8	Elementary swimming	1
<i>Recreation</i> 170	Recreation techniques for the disabled	2
<i>Kinesiology</i> 104	Applied anatomy and kinesiology	2
		19

Summer Session

(Two months)

<i>Application</i> 5128	Clinical practice and clerkship	2
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SENIOR YEAR

Winter Session

<i>P.T. Theory</i> 13	Theory and practice of electrotherapy, etc.	2
<i>Motor Disabilities</i> 121	Physical therapy techniques for motor disabilities	2
<i>Bandaging</i> 17	Bandaging and dressings	1
<i>Clinical Instruction, Experience, and Seminar</i>		2

<i>Psychiatry</i> 101	Psychosomatic aspects of physical medicine	1
<i>Physiology</i> 157	Applied physiology	2
<i>Application</i> 29	Practical application of physical therapy	2
<i>Electives</i>		3
		—

15

Spring Session

<i>P.T. Theory</i> 16	Seminar	1
<i>Massage</i> 104	Advanced massage	1
<i>O.T. Theory</i> 14	Orientation to occupational therapy	1
<i>Application</i> 30	Practical application of physical therapy	3
<i>Rehabilitation</i> 150	Rehabilitation and acceptance of handicaps	2
<i>Speech</i> 162	Principles and practice of speech science	3
<i>General Clinical Experience and Clerkships</i>		2
<i>T.C. Biology</i> 253b	Muscles, bones, and joints	1
<i>Electives</i>		2
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16

Summer Session

(One-month Clinical)

<i>Application</i> 5130	Clinical practice and clerkships	2
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ADVANCED STANDING COURSE

Winter Session

<i>Anatomy</i> 155	Anatomy and physiology	3
<i>Physics</i> 111	Physics applied to physical medicine	2
<i>Massage</i> 3	Theory and practice	2
<i>Pathology</i> 31	Elementary studies in pathology	1
<i>Ethics</i> 39	Ethics and institutional aspects of physical therapy	1
<i>P.T. Theory</i> 13	Theory and practice of electrotherapy, etc.	2
<i>Neuroanatomy</i> 95	Anatomy of the nervous system	1
<i>Physiology</i> 157	Applied physiology	2
<i>Application</i> 29	Practical application of physical therapy	2
<i>Bandaging</i> 17	Bandaging and dressing	1
<i>Relaxation</i> 143	Theory and practice of relaxation	2
		—

19

Spring Session

<i>Radiation</i> 10	Theory and practice of heat application and radiation	2
<i>Hydrotherapy</i> 18	Theory and practice of hydrotherapy	1
<i>Orthopedics</i> 136	General survey of orthopedics	2
<i>Exercise</i> 112	Therapeutic exercise	3
<i>Psychiatry</i> 102	Elementary psychiatry	2

<i>Neurology</i> 106	Elementary neurology	2
<i>Application</i> 30	Practical application of physical therapy	3
<i>Rehabilitation</i> 150	Rehabilitation and acceptance of handicaps	2
<i>Swimming</i> 8	Elementary swimming	1
<i>Kinesiology</i> 104	Applied anatomy and kinesiology	2

 20
Summer Session

(Three-month Clinical)

<i>Application</i> 5140	Clinical practice and clerkships	4
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HOSPITALS AFFILIATED FOR CLINICAL TRAINING

Attendance in the hospitals and clinics listed below is concurrent with regular classroom work in the Winter and Spring Sessions. In addition, all students are required to spend a period during the summer in full-time clinical practice.

ASSOCIATION FOR THE AID OF CRIPPLED CHILDREN, New York, N. Y.

Mrs. Alice FitzGerald, *Educational Director*

BLYTHEDALE, Valhalla, N. Y.

Morris Klapper, *Executive Director*

Carroll Wardlaw, R.P.T., *Head Physical Therapist*

BRONX VETERANS HOSPITAL, New York, N. Y.

Arthur Abramson, M.D., *Chief, Physical Medicine Rehabilitation Service*

Morris Vogel, *Chief of Physical Therapy*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N. Y.

John S. Parke, *Executive Vice President*

William Benham Snow, M.D., *Director, Clinical Physical Medicine*

Presbyterian Hospital

Mrs. Edith Hansen, R.N., R.P.T., *Head Physical Therapist*

Neurological Institute

Mary A. Cover, R.P.T., *Head Physical Therapist*

New York Orthopaedic Hospital

Agatha Hanley, *Head Physical Therapist*

GRACE-NEW HAVEN COMMUNITY HOSPITAL, New Haven, Connecticut

Thomas F. Hines, M.D., *Director of Physical Medicine and Rehabilitation*

Edith Nyman, *Head Physical Therapist*

HARTFORD HOSPITAL, Hartford, Connecticut

John C. Allen, *Physiatrist*

Robert Scherf, *Chief Physical Therapist*

HOSPITAL FOR CHRONIC ILLNESS, Rocky Hill, Connecticut

A. N. Creadick, M.D., *Medical Director*

Nila Kirkpatrick Covalt, M.D., *Chief of Physical Medicine and Rehabilitation*

Annette Wolter, R.P.T., *Supervisor of Physical Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N. Y.

Col. John N. Smith, Jr., *Director*Blanche Talmud, R.P.T., *Supervising Therapist*

JEWISH SANITARIUM AND HOSPITAL FOR CHRONIC DISEASES, Brooklyn, N. Y.

Murray Chrystal, R.P.T., *Administrative Director of Physical Medicine and Rehabilitation*

KESSLER INSTITUTE FOR REHABILITATION, West Orange, N. J.

William K. Page, Jr., *Administrator*Henry H. Kessler, M.D., *Medical Director*Signe Brunnstrom, *Educational Director and Director of Physical Therapy*

MARINE HOSPITAL, UNITED STATES PUBLIC HEALTH SERVICE, New York, N. Y.

Samuel M. Paley, M.D., *Director, Physical Medicine*Esther Anderson, R.P.T., *Chief Physical Therapist*

MORRIS MEMORIAL HOSPITAL, Milton, W. Va.

Sarah Pritchett, R.N., *Superintendent*Mrs. Georgia Traub, *Chief Physical Therapist*

NEW YORK HOSPITAL, New York, N. Y.

Christian Hansson, M.D., *Director of Physical Medicine*Margaret Valentine Rennison, R.P.T., *Head Physical Therapist*

NEW YORK REGIONAL OFFICE, VETERANS ADMINISTRATION, RAY CLINICS, New York, N. Y.

Irving Tepperberg, M.D., *Chief, Physical Medicine Rehabilitation Service*G. DiNubila, *Chief Physical Therapist*

NEW YORK SERVICE FOR ORTHOPEDICALLY HANDICAPPED, INC., New York, N. Y.

Mrs. Sarah Jane Kinoy, *Director*Dorothy Richards, R.P.T., *Head Physical Therapist*

NEW YORK STATE REHABILITATION HOSPITAL, West Haverstraw, N. Y.

Herman E. Hillboe, M.D., *Commissioner (Department of Health, State of New York)*Margaret A. O'Neill, R.P.T., Ph.T., A.M., *Director, Department of Physical Therapy*Erbert Cicienja, R.P.T., A.M., *Director of Rehabilitation Section*

ST. GILES CONVALESCENT HOME AND SCHOOL, Garden City, L. I.

W. Crane Lyon, *General Manager*Florence A. Liljander, P.T., *Coordinator of Therapies*

OUTLINE OF COURSES

The University reserves the right to withdraw or modify these courses or to change the instructors as may be necessary.

NOTE:—For additional courses open to students in physical therapy, consult the Announcements of Teachers College and the School of General Studies.

DEGREE COURSE

JUNIOR YEAR

Winter Session

***Anatomy 155—Anatomy and physiology.** Lectures and laboratory. 3 points. Professors Elfuman and Noback.

This course provides instruction in the basic and related histology, anatomy, and physiology necessary for understanding the human body, especially the muscle-joint-bone unit. It includes demonstration on the human cadaver.

***Physics 111—Physics applied to physical medicine.** 2 points. Mr. Sjöberg.

Basic kinetics, radiation, hydro-dynamics, and electricity as they apply to the practice of physical therapy.

***Pathology 31—Elementary studies in pathology.** 1 point. Dr. King.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alterations of functions resulting from these influences.

***Ethics 39—Ethics and institutional aspects of physical therapy.** 1 point. Professor Snow.

Lectures governing appropriate conduct of medical assistants in the routine of their work. Orientation of medical workers toward institutional contacts.

***Massage 3—Theory and practice.** 2 points. Miss Callahan.

The theory and practice of massage with laboratory demonstrations and practice.

Psychology 33—Abnormal psychology. 2 points. Dr. Burgemeister.

Lectures in this course describe the common mental maladjustments, undertaking to explain them in terms of general psychological principles. The social implications of abnormalities are emphasized.

Prerequisite: General psychology.

Education 41R—Introduction to records and case work. 1 point. Mrs. Carrick.

Orientation in case-work methods. Special emphasis is placed on techniques and practice in reading the total record of the patient and in writing intelligent observational reports.

***Neuroanatomy 95—Anatomy of the nervous system.** 1 point. Professor Sciarra.

Anatomy of the nervous system of man, including: essentials of the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain and spinal cord with particular emphasis on the controls affecting voluntary motion.

***Relaxation 143—Lectures and laboratory.** 2 points. Professor Pinkerton.

Methods and practice of relaxation to relieve fatigue, to increase efficiency in hypertensive individuals, and as prescribed treatment.

* Also an Advanced Standing course.

Spring Session

***Radiation 10—Theory and practice of heat application and radiation.** 2 points. Dr. Safford.

A study of spectral radiation and the theory and technique of application of radiation of various types. Actual practice in various institutions.

***Hydrotherapy 18—Theory and practice of hydrotherapy.** 1 point. Miss Hebert.

The course concerns physiological effects, technique, and application of water as a therapeutic agent.

***Orthopedics 136—Orthopedics.** 2 points. Dr. Knocke.

Lectures and clinical presentations descriptive of orthopedic conditions; some discussion as to problems—personal, medical, surgical. Rehabilitation problems common to this group of patients.

***Exercise 112—Therapeutic exercise.** 2 or 3 points. Professors Snow and Pinkerton, Dr. Hoberman, and Miss Hebert.

Fundamentals of muscle reeducation; the application of directed movement as an accessory in the treatment of altered function; includes underwater techniques and practice in the treatment of crippled patients.

***Psychiatry 102—Elementary psychiatry.** 2 points. Drs. Carter and Glaser.

Etiology and symptomatology of the major and minor psychoses, including the psychoneuroses and their treatment. Lectures with clinical demonstrations.

***Neurology 106—Clinical neurology.** 2 points. Dr. Greene.

Symptomatology and treatment in diseases of the brain, spinal cord, and peripheral nerves.

***Swimming 8—Elementary swimming.** 1 point. Miss Burke.

Consideration is given to the skills and methods of teaching swimming.

Recreation 170—Recreation techniques for the disabled. 2 points. Miss Preston.

Practical rehabilitation techniques exemplified through lecture, demonstration, and practice in recreation with a particular medical emphasis.

Kinesiology 104—Applied anatomy and kinesiology. 2 points. Professor Pinkerton.

Review of gross anatomy of skeletal and muscular systems, mechanics of bodily movement, and analysis of skills used in daily activities and in physical and occupational therapy.

Summer Session

Application s128—Clinical practice and clerkship. 2 points. Clinical Supervisors.

Observation and practice in general physical therapy for two months in an affiliated hospital; instruction and the writing of case studies.

SENIOR YEAR

Winter Session

***Physical Therapy Theory 13—Theory and practice of electrotherapy and miscellaneous physical therapy applications and diagnostic aids.** 3 points. Professor Snow; special lectures by Professors Hoefer and Horwitz, Drs. Hoberman, Moldaver, and Safford; Miss Hebert and Mrs. Hansen.

Techniques of application of electrotherapy. Other miscellaneous physical therapy applications and diagnostic aids not otherwise provided for. Intimate instruction in techniques of application of the various modalities of physical therapy with return demonstration by the student.

* Also an Advanced Standing course.

Motor Disabilities 121—Lectures and demonstrations. 2 points. Professor Snow, Drs. Cass, Greene, and Hoberman, and Misses Hendin and Abbott.

A consideration of motor disabilities due to developmental abnormalities, disease, or injury. Techniques in the management of these patients with particular stress on the use of physical and occupational therapy in their rehabilitation.

***Bandaging 17**—Bandaging and dressing. 1 point. Miss Hebert.

The techniques of bandaging, asepsis, handling of dressings, and bedside conduct.

Psychiatry 101—Psychosomatic aspects of physical medicine. 1 point. Dr. Stewart.

The effect of personality factors on sick individuals and a consideration of the problems that occur due to alteration of their psyches as a result of stress of illness.

***Physiology 157**—Aspects of human physiology. 2 points. Dr. Cizek.

This course includes the physiology of the nervous system, of circulation, and of respiration. Emphasis is placed on the physiology of exercise to meet the needs of the occupational therapy and physical therapy student. Lectures and laboratory demonstrations.

***Application 29**—Practical application of physical therapy in medical and surgical practice. Lectures and laboratory. 2 points. Professor Snow and associates.

This course gives the students a closer acquaintance with disease as it occurs in medical practice. Specialists discuss the problems in their fields of practice, including particular pathology, and they present the needs of physical therapy. This analysis is followed by prescription physical therapy to cover these special indications. There will be further clinical practice in hospitals.

Spring Session

Massage 104—Advanced massage. 1 point. Dr. Gurewitsch.

Neurological Institute.

Lectures and demonstrations of massage in the treatment of medical entities.

Prerequisite: *Massage 3*.

O.T. Theory 14—Orientation to occupational therapy. 1 point. Miss Kilburn.

General survey of the field. Theoretical principles as applied to major disability areas with particular emphasis of occupational therapy skills in the treatment of physical disabilities.

***Application 30**—Practical application of physical therapy in medical and surgical practice.

Lectures and laboratory. 3 points. Professor Snow and associates.

Continuation of *Application 29*.

Rehabilitation 150—Rehabilitation and acceptance of handicaps. 2 points. Miss Talmud.

The readjustment physically and psychologically of the handicapped patient to meet the progressive problems of life; a consideration of the agencies for assisting handicapped individuals.

P.T. Theory 16—Seminar. 1 point. Professor Pinkerton and Miss Callahan.

Lecture and discussion of topics of importance to the therapist in practice.

T.C. Biology 253b—Muscles, bones, and joints. 1 point. Miss Leavell.

For students who wish additional study on bones, joints, and muscles and experience in handling laboratory materials.

Speech 162—Principles and practice of speech science. 3 points. Dr. Cass.

This course covers the basic anatomy and physiology underlying speech science. Consideration will be given to the pathology of speech abnormalities and the therapeutic approach for their correction.

* Also an Advanced Standing course.

*Summer Session***Application s130—Clinical practice.** 2 points. Clinical Supervisors.

Instruction, return demonstration, and general practice, for one month in affiliated hospitals, with special emphasis on underwater exercise, methods of rehabilitation and observation, and practice in muscle testing.

ADVANCED STANDING COURSE

All courses marked with an asterisk in the degree program, Junior and Senior Years, must be taken. In addition:

*Summer Session***Application s140—Clinical practice.** 4 points. Clinical Supervisors.

General clinical practice in affiliated hospitals, on a regular work-day basis, for three months. During an additional month students receive training in underwater exercise, methods of rehabilitation and observation, and practice in muscle testing.

OCCUPATIONAL THERAPY

ADMINISTRATIVE OFFICERS

- DWIGHT D. EISENHOWER, LL.D. *President of the University*
- GRAYSON KIRK, Ph.D., LL.D. *Vice President and Provost of the University*
- WILLARD COLE RAPPLEYE, A.M., M.D., Sc.D. . . . *Vice President in Charge of Medical Affairs; Dean, Faculty of Medicine*
- ROBERT C. DARLING, M.D. . *Professor of Physical Medicine and Rehabilitation; Executive Officer, Department of Physical Medicine and Rehabilitation*
- WILLIAM BENHAM SNOW, M.D. . . . *Professor of Physical Medicine; Medical Director, Training Courses in Physical and Occupational Therapy*
- MARIE LOUISE FRANCISCUS, B.S., O.T.R. . . *Assistant Professor and Director, Training for Occupational Therapists*
- VIRGINIA T. KILBURN, A.B., O.T.R. *Associate Director, Training for Occupational Therapists*

OFFICERS OF INSTRUCTION

- MARGUERITE ABBOTT, O.T.R. . . . *Occupational Therapy Applied to Physical Injuries, Motor Disabilities*
B.S., Tufts; Graduate, Boston School of Occupational Therapy
Instructor in Training for Occupational Therapists
- NORMAN R. ALPERT *Physiology*
A.B., Wesleyan; Ph.D., Columbia
Instructor in Physiology
- LUCILLE H. BLUM *Child Development*
B.S., A.M., Ph.D., Columbia
Psychologist, Therapeutic Services, Post-Graduate Center for Psychotherapy, Inc.
- EDITH H. BROKAW, O.T.R. *Design, Leather, General Crafts, Needlecrafts, Weaving, Woodwork*
Graduate, Philadelphia School of Occupational Therapy
Instructor in Training for Occupational Therapists
- BESSIE B. BURGEMEISTER *Abnormal Psychology*
A.B., A.M., Ph.D., Columbia
Research Assistant in Neurology
- SIDNEY CARTER *Psychiatry*
A.B., Dartmouth; M.D., Boston University
Assistant Professor of Neurology
- GRAHAM CLARK *Eye Conditions*
B.S., M.D., Virginia
Instructor in Ophthalmology
- HERBERT O. ELFTMAN *Anatomy*
A.B., A.M., California; Ph.D., Columbia
Associate Professor of Anatomy

- CHARLES W. FINDLAY, JR. *General Surgery*
A.B., Yale; M.D., Columbia
Instructor in Surgery
- MARIE LOUISE FRANCISCUS, O.T.R. *Rehabilitation, Theory of Occupational Therapy,
Clerkships in Occupational Therapy*
B.S., Ohio State; Graduate, Philadelphia School of Occupational Therapy
Assistant Professor and Director, Training for Occupational Therapists
- EDWARD J. FREY *Printing*
Lecturer, School of General Studies
- GILBERT H. GLASER *Psychiatry*
A.B., M.D., Columbia
Associate in Neurology
- JUSTIN L. GREENE *Motor Disabilities, Neurology*
A.B., Columbia; M.D., Paris
Instructor in Neurology
- WILLIE H. HINELY *Woodwork, Metalwork and Jewelry*
B.S., Georgia Teachers College; A.M., Columbia
Instructor in Fine and Industrial Arts, Teachers College
- MORTON HOBERMAN *Motor Disabilities, Therapeutic Exercise*
B.S., New York University; M.B., M.D., Wayne
Instructor in Medicine
- FLORENCE E. HOUSE *Weaving*
B.S., A.M., Columbia
Instructor in Training for Occupational Therapists
- VIRGINIA T. KILBURN, O.T.R. *Theory of Occupational Therapy,
Clerkships in Occupational Therapy*
A.B., Wellesley; Certificate in Occupational Therapy, Columbia
Associate Director, Training for Occupational Therapists
- DONALD W. KING, JR. *Pathology*
A.B., M.D., Syracuse
Instructor in Pathology
- FREDERICK J. KNOCKE *Orthopedics*
A.B., Princeton; M.D., Cornell
Instructor in Orthopedic Surgery
- JOHN S. LEARY *Pottery*
B.F.A., A.M., Ohio State
Instructor in Fine and Industrial Arts, Teachers College
- LUTIA CLEMSON LEAVELL *Biology*
B.S., A.M., M.S., Columbia
Instructor in Nursing Education, Teachers College
- MELVIN LOOS *Printing*
Lecturer in Graphic Arts, School of General Studies
Manager, Printing Office, Columbia University Press
- CHARLES ROBERT NOBACK *Anatomy*
B.S., Cornell; M.S., New York University; Ph.D., Minnesota
Assistant Professor of Anatomy
- JOHN OPPER *Design*
B.S., Western Reserve; A.M., Columbia
Instructor in Fine and Industrial Arts, Teachers College

- ¹FLOY PINKERTON, R.P.T. *Kinesiology, Therapeutic Exercise*
B.S., Stephen F. Austin State Teachers College; A.M., Columbia
Assistant Professor and Director, Training for Physical Therapists
- DANIEL SCIARRA *Neuroanatomy, Psychiatry*
A.B., M.D., Harvard
Assistant Professor of Neurology
- ANITA H. SLOMINSKI, O.T.R. *Cerebral Palsy*
A.B., Indiana; Certificate in Occupational Therapy, Columbia
Instructor in Occupational Therapy
- MARTIN DE FOREST SMITH *General Medicine*
A.B., M.D., Columbia
Associate Clinical Professor of Medicine
- WILLIAM BENJAMIN SNOW *Therapeutic Exercise, Ethics,
Motor Disabilities*
M.D., Long Island College of Medicine
Medical Director, Training Courses in Physical and Occupational Therapy
Professor of Physical Medicine
- BLANCHE TALMUD *Recreation*
B.S., New York University; Graduate, School of Physical Therapy, New York University
Lecturer in Physical Therapy
- SONYA EISENMENGER WEBER, Ph.T. *Therapeutic Exercise*
A.B., Vienna; Sc.D., Eastern Reserve
Instructor in Physical Medicine
- PAUL E. WILSON *Pediatrics*
A.B., Cornell; Sc.D., M.D., Johns Hopkins
Instructor in Pediatrics

SPECIAL LECTURERS

- MARGARET BARNARD *Public Health*
A.B., Smith; M.D., Cornell; Ph.D., Johns Hopkins
Associate Professor of Public Health Practice, Columbia School of Public Health
- HELEN BECHT *Rehabilitation*
A.B., Cincinnati; A.M., Columbia
Associate, Rehabilitation Service, National Tuberculosis Association
- MARION CASS *Motor Disabilities*
A.B., University of Nebraska; A.M., Ed.D., Columbia
Associated with Winthrop M. Phelps, M.D., Baltimore
- CECILE L. CROTTY *Clerkship in Occupational Therapy*
Diploma, Posse-Nissen College of Physical Education
Recreation Instructor, New York State Psychiatric Institute and Hospital
- FREDERIC G. ELTON *Rehabilitation*
Diploma, Massachusetts State Normal School, Massachusetts Institute of Technology
Chief District Supervisor, Division of Vocational Rehabilitation, New York State Department of Education
- MARJORIE FISH, O.T.R. *Theory of Occupational Therapy*
A.B., Swarthmore; Graduate, Boston School of Occupational Therapy
Executive Director, American Occupational Therapy Association

¹ On leave 1952-1953.

- ELIZABETH S. FORBES, O.T.R. *Clerkship in Occupational Therapy,
Hospital Orientation*
A.B., Radcliffe; Graduate, Boston School of Occupational Therapy
Director, Occupational Therapy Department, Institute for the Crippled and Disabled
- MARGARET HEBERT, R.N., R.P.T. *Therapeutic Exercise*
R.N., Quincy City Hospital, Quincy, Mass.; R.P.T., Columbia
Physical Therapist, Columbia Presbyterian Medical Center
- SHULAMITH KASTEIN *Therapeutic Exercise*
Speech Pathologist, Department of Audiology and Phonology, Columbia-Presbyterian Medical Center
- HELEN C. MATHIAS, O.T.R. *Clerkship in Occupational Therapy*
A.B., Montclair Teachers College; Graduate, Philadelphia School of Occupational Therapy
Supervisor, Occupational Therapy, Bellevue Hospital
- DOREEN POLLACK *Therapeutic Exercise*
Speech and Hearing Therapist, Department of Audiology and Phonology, Columbia-Presbyterian Medical Center
- MARY JANE PRESTON *Recreation*
Graduate in Physical Education, Michigan State Normal
Recreation Supervisor, Pilgrim State Hospital, West Brentwood, N. Y.
- HELEN V. RIKOON, O.T.R. *General Crafts, Design,
Leather, Weaving, Woodwork*
A.B., Pennsylvania; Graduate, Philadelphia School of Occupational Therapy
Assistant in Occupational Therapy
- VIRGINIA SCULLIN, O.T.R. *Principles and Practice of Occupational Therapy*
Graduate, Philadelphia School of Industrial Arts
Director of Occupational Therapy, New York State Department of Mental Hygiene
- JOSEPH EARL SNYDER *Ethics*
A.B., Nebraska; M.D., Pennsylvania
Administrative Assistant In Charge of Professional Services, Presbyterian Hospital
- MARGUERITE VAUGHAN, O.T.R. *Principles and Practice of Occupational Therapy,
Clerkship in Occupational Therapy, Hospital Orientation*
A.B., Randolph-Macon Woman's College; A.M., Columbia
Senior Occupational Therapist, New York State Psychiatric Institute and Hospital
- HELEN P. WHITE, O.T.R. *Principles and Practice of Occupational Therapy,
Clerkships in Occupational Therapy, Hospital Orientation*
A.B., University of Michigan; A.M., New York University; Graduate, Philadelphia School of Occupational Therapy
Director, Occupational Therapy, Columbia-Presbyterian Medical Center

OCCUPATIONAL THERAPY

Occupational therapy is the practice of medically prescribed treatment in the form of supervised activity for persons injured in body or mind by accident or disease. Creative and manual arts, recreational activities, educational pursuits, and pre-industrial training are the concern of the therapist participating in modern occupational therapy programs today as they help toward the physical, mental, social, and economic adjustment of the patient.

Occupational therapy has grown and expanded rapidly as an aid to recovery and a guide to vocational rehabilitation of both civilians and service personnel due to impetus from the two World Wars. Occupational therapy is filling an increasingly important role in the postwar program.

A Bachelor of Science degree in occupational therapy is offered upon completion of the two-year training course. Candidates for admission to this course must present a minimum of sixty liberal arts credits.

Certificate in Occupational Therapy is awarded to students who already have a Bachelor's degree upon completion of seventeen months of full-time training as outlined.

The curriculum consists of classroom work devoted to courses in the biological, social, and clinical sciences providing a scientific, medical, and theoretical background together with courses in the techniques of creative arts, recreational therapy, educational therapy, and prevocational training as they enter into the actual practice of occupational therapy. In addition to theoretical classroom instruction, students observe treatment procedures in the Occupational Therapy units of the Columbia-Presbyterian Medical Center, the Institute for the Crippled and Disabled, and the New York State Psychiatric Institute and Hospital. A program of student clerkships in conjunction with the same institutions permits students to study treatment problems of specific diagnostic classifications as they are introduced in the medical lecture series, by means of the case study and laboratory method. There is a nine-month period of clinical practice in teaching hospitals under supervision of the University.

The courses described in this Announcement meet the requirements set forth by the American Occupational Therapy Association and by the Council on Medical Education and Hospitals of the American Medical Association, as published in their *Essentials of an Acceptable School of Occupational Therapy*, which regulates the standards by which schools are accredited. Graduates of both the Degree course and the Certificate course are eligible for the examination leading to admission to the Registry of Occupational Therapists maintained by the American Occupational Therapy Association. This examination is held throughout the country at specified periods during the year. Admission to the Registry is the certification of a therapist to practice.

ADMISSION REQUIREMENTS

Students will be admitted in September. Applicants for admission must be between the ages of nineteen and thirty-five years, must be graduates of approved high schools, and must satisfy one of the following requirements:

- A. *Candidates for the Degree.* Students who have satisfactorily completed at least two years of work in a college approved by Columbia University may register for the regular course to be completed in two years (twenty-five calendar months). The two years in liberal arts required for admission on this basis, sixty semester credits,

should include a year of college science, at least one semester in general psychology, and one semester in sociology.

- B. *Candidates for the Certificate.* Students who hold a baccalaureate degree acceptable to Columbia University may register in the advanced standing program, completing the course in seventeen months—eight months theoretical training and nine months in clinical practice. Courses in natural sciences, including chemistry or biology, psychology, and sociology, should be included in the college courses.

NOTE:—Graduates with accredited professional training in fields closely related to occupational therapy, such as nurses, may be admitted to the advanced standing program.

ADMISSION PROCEDURE

Forms to be used in making application for admission may be obtained by writing to the Occupational Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. Such forms should be filed several months in advance of the time at which students wish to begin their studies.

Candidates for the professional courses must be between nineteen and thirty-five years of age. Demands made on the physical endurance and emotional stamina of the therapist require a record of good health.

While occupational therapy has been a profession of interest primarily to women, there are an increasing number of positions in the field for which it is desirable to have male therapists. For this reason a limited number of men are admitted to the professional courses, depending upon individual qualifications.

ESTIMATED EXPENSES

Following is an itemized estimate of expenses of attendance in the courses in occupational therapy.

<i>University Expenses</i>	<i>Degree Course</i>	<i>Advanced Standing Course</i>
Tuition	\$1,500	\$750
University fees	90	50
Clinical fee	10	10
Books, materials, equipment, uniforms	240	140
Health and hospital fee	40	20
Degree or Certificate application	20	10
<i>Total</i>	\$1,900	\$980
<i>Living Expenses (academic year)</i>	<i>Average</i>	<i>Minimum</i>
Room	\$400	\$320
Board	350	350
Subway and bus fares (within program)	50	50
<i>Total</i>	\$800	\$720

Fees for materials and equipment in studio classes are payable at the time of registration and are subject to changes in accord with market prices.

During clinical training students spend approximately four months of the period in residence in hospitals where they receive full maintenance (room, board, and laundry). In some instances a maintenance arrangement is possible for a longer period of time.

There will be nominal transportation expenses for students in hospital affiliations outside the local area.

COURSE OF STUDY IN OCCUPATIONAL THERAPY

An outline of the program of studies for each year of the course is given below. In the Degree-course the first two years are spent on the campus in theoretical and technical study, followed by nine to twelve months devoted to clinical practice in mental, general, children's, orthopedic, and tuberculosis services or hospitals. The summer periods are utilized for required clinical practice, thereby enabling the student to complete the full course in approximately two years.

Advanced Standing students completing the course in seventeen months carry a program combining first-year and second-year courses during the one year spent on the campus, followed by nine to twelve months devoted to clinical practice.

DEGREE COURSE

JUNIOR YEAR

Winter Session

		<i>Points</i>
<i>O.T. Theory 11</i>	Elementary theory of occupational therapy	2
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Psychology 33</i>	Abnormal psychology	2
<i>Ethics 39</i>	Ethics	1
<i>Physiology 55</i>	Basic human physiology	2
<i>Neuroanatomy 95</i>	Anatomy of the nervous system	1
<i>Anatomy 155</i>	Anatomy	3
<i>O.T. Fine Arts 11</i>	Needlecrafts	2
<i>O.T. Fine Arts 27</i>	Pottery	2
<i>O.T. Fine Arts 163</i>	Elementary woodwork	2
		18

Spring Session

<i>O.T. Theory 12</i>	Theory of occupational therapy	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Neurology 106</i>	Clinical neurology	2
<i>Recreation 170</i>	Recreation techniques for the disabled	2
<i>T.C. Biology 253b</i>	Muscles, bones, and joints	1
<i>T.C. Fine Arts 101T</i>	Fundamentals of design	2
<i>O.T. Fine Arts 30</i>	Elementary weaving	3
<i>O.T. Fine Arts 14</i>	General crafts	3
<i>O.T. Clerkship 2</i>	Psychiatric	2

19

June, July, and August: Clinical practice in psychiatry

SENIOR YEAR

<i>Winter Session</i>		<i>Points</i>
<i>O.T. Theory</i> 21	Advanced theory of occupational therapy	2
<i>Psychology</i> 45	Child development	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>O.T.</i> 117	Rehabilitation	2
<i>Motor Disabilities</i> 121	Techniques for motor disabilities	2
<i>O.T. Fine Arts</i> 105	Interpretive design	2
<i>O.T. Fine Arts</i> 165	Advanced woodwork	2
<i>O.T. Clerkship</i> 3	Medicine and surgery	2
Elective		2
		—
		18

Spring Session

<i>O.T. Theory</i> 24	Application to physical injuries	2
<i>Kinesiology</i> 104	Practical and applied kinesiology	2
<i>Clinical Subjects</i> 102	Orthopedics, pediatrics, public health	2
<i>Exercise</i> 112	Therapeutic exercise	2
<i>O.T. Graphic Arts</i> 1R	Art of hand printing	2
<i>O.T. Fine Arts</i> 18	Leather	2
<i>O.T. Fine Arts</i> 32	Advanced weaving	2
<i>O.T. Fine Arts</i> 168	Metalwork and jewelry	2
<i>O.T. Clerkship</i> 4	Physical disabilities	2
		—
		18

July-January: Six months of clinical practice in specified areas of service

ADVANCED STANDING COURSE

Winter Session

<i>O.T. Theory</i> 11	Elementary theory of occupational therapy	2
<i>Physiology</i> 55	Basic human physiology	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>O.T.</i> 117	Rehabilitation	2
<i>Anatomy</i> 155	Anatomy	3
<i>O.T. Fine Arts</i> 15	General crafts and needlecrafts	3
<i>O.T. Fine Arts</i> 17	Leather	1
<i>O.T. Fine Arts</i> 27	Pottery	2
<i>O.T. Fine Arts</i> 167	Woodwork	2
		—
		19

<i>Spring Session</i>		<i>Points</i>
<i>O.T. Theory 12</i>	Theory of occupational therapy	2
<i>O.T. Theory 24</i>	Application to physical injuries	2
<i>Kinesiology 104</i>	Practical and applied kinesiology	2
<i>Clinical Subjects 102</i>	Orthopedics, pediatrics, public health	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Neurology 106</i>	Clinical neurology	2
<i>O.T. Graphic Arts 1R</i>	Art of hand printing	1
<i>O.T. Fine Arts 34</i>	Weaving	2
<i>O.T. Fine Arts 106</i>	Interpretive design	2
<i>O.T. Fine Arts 168</i>	Metalwork and jewelry	2
		19

Attendance at a weekly seminar is required of all Advanced Standing students during the Winter and Spring Sessions. Discussions in this seminar are concerned with advanced theory and principles and practice of occupational therapy.

July-April: Nine months of clinical practice in specified areas of service

HOSPITALS AND AGENCIES AFFILIATED FOR CLINICAL TRAINING

The nine to twelve months of clinical training consist of full-time practical experience in well-organized and carefully supervised Occupational Therapy Departments under the immediate direction of registered occupational therapists. Clinical training shall be completed within one year following termination of academic work. During this period students attend lectures, clinics, staff meetings, and orientation in related treatment departments, conduct special case studies, and obtain practical experience in special therapeutics, such as physical education, educational therapy, and prevocational therapy.

BRATTLEBORO RETREAT, Brattleboro, Vermont

J. Butler Tompkins, M.D., *Superintendent*

Miss Hope Severance, O.T.R., *Director of Occupational Therapy*

THE CHILDREN'S HOSPITAL, Buffalo, N.Y.

Moir P. Tanner, *Superintendent*

Miss Edith Ann Meyers, O.T.R., *Director of Occupational Therapy*

CHILDREN'S REHABILITATION INSTITUTE, Cockeysville, Maryland

Winthrop M. Phelps, M.D., *Medical Director*

Miss Ruth Brunyate, O.T.R., *Director of Occupational Therapy*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N.Y.

John S. Parke, *Executive Vice President*

William Benham Snow, M.D., *Director, Clinical Physical Medicine*

Mrs. Helen P. White, O.T.R., *Chief Occupational Therapist*

CONNECTICUT STATE HOSPITAL, Middletown, Connecticut

Edgar C. Yerbury, M.D., *Superintendent*

Mrs. Alice M. Rogers, O.T.R., *Supervisor of Occupational Therapy*

CURATIVE WORKSHOP, PHILADELPHIA SCHOOL OF OCCUPATIONAL THERAPY, Philadelphia, Pennsylvania

Miss Clare S. Spackman, O.T.R., *Director*

EMORY UNIVERSITY HOSPITAL, Atlanta, Georgia

Robert F. Whitaker, *Superintendent*

Robert L. Bennett, M.D., *Medical Director*

Miss Martha E. Schnebly, O.T.R., *Director of Occupational Therapy*

GALLINGER MUNICIPAL HOSPITAL, Washington, D.C.

Crippled Children's Clinic

Philip A. E. Stebbing, M.D., *Superintendent*

Mrs. Helen N. Cromartie, O.T.R., *Director of Occupational Therapy*

GERMANTOWN DISPENSARY AND HOSPITAL, Philadelphia, Pennsylvania

W. T. Sherman Thorndike, M.D., *Managing Director*Miss Alice Letchworth, O.T.R., *Director of Occupational Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N.Y.

Colonel John N. Smith, Jr., *Director*Miss Elizabeth S. Forbes, O.T.R., *Director of Occupational Therapy*

JEWISH SANITARIUM AND HOSPITAL FOR CHRONIC DISEASES, Brooklyn, N.Y.

Arthur Feigenbaum, *Superintendent*Mrs. Frances L. Shuff, O.T.R., *Director of Occupational Therapy*

KESSLER INSTITUTE FOR REHABILITATION, West Orange, N.J.

Henry H. Kessler, M.D., *Medical Director*Miss Florence M. Stattel, O.T.R., *Chief Occupational Therapist*

MONTEFIORE HOSPITAL—COUNTRY SANATORIUM, Bedford Hills, N.Y.

Irving Gottsegen, *Assistant Director*Mrs. Dorothy Sebesta, O.T.R., *Occupational Therapy Executive*

NEW YORK CITY DEPARTMENT OF HOSPITALS

Bruce B. Grynbaum, M.D., *Director of Rehabilitation and Physical Medicine*

Bellevue Hospital

Miss Helen C. Mathias, O.T.R., *Supervisor of Occupational Therapy*

City Home for the Blind

Miss Grace Hildenbrand, O.T.R., *Supervisor of Occupational Therapy*

City Hospital

Mrs. Francis O'Brien, O.T.R., *Supervisor of Occupational Therapy*

Goldwater Memorial Hospital

Miss Frances E. Heess, O.T.R., *Supervisor of Occupational Therapy*

Sea View Hospital

Mrs. Julia O. Murtha, O.T.R., *Supervisor of Occupational Therapy*

Triboro Hospital

Miss Gertrude Wait, O.T.R., *Supervisor of Occupational Therapy*

NEW YORK HOSPITAL, New York, N.Y.

Children's Clinic

S. Z. Levine, M.D., *Pediatrician in Chief*Miss Evelyn Wolff, O.T.R., *Director of Occupational Therapy*

Payne Whitney Psychiatric Clinic

Oskar Diethelm, M.D., *Psychiatrist in Charge*Miss Mildred Spargo, O.T.R., *Director of Occupational Therapy*

NEW YORK STATE DEPARTMENT OF HEALTH, DIVISION OF TUBERCULOSIS CONTROL

Robert E. Plunkett, M.D., *Assistant Commissioner*Miss M. Arlene Mellinger, O.T.R., *Supervisor of Occupational Therapy*

NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE

Miss Virginia M. Scullin, O.T.R., *Director of Occupational Therapy*

Pilgrim State Hospital, Brentwood, L.I.

Harry J. Worthing, M.D., *Senior Director*Miss Helen Hedges, O.T.R., *Supervisor of Occupational Therapy*

New York State Psychiatric Institute and Hospital, New York, N.Y.

Nolan D. C. Lewis, M.D., *Director*Miss Marguerite Vaughan, O.T.R., *Senior Occupational Therapist*

NEW YORK STATE REHABILITATION HOSPITAL, West Haverstraw, N.Y.

Austin J. Canning, M.D., *Director*Miss Viola W. Svensson, O.T.R., *Director of Occupational Therapy*

NIAGARA SANATORIUM, Lockport, N.Y.

Arthur N. Aitken, M.D., *Director*Mrs. Charlotte Briggs, O.T.R., *Director of Occupational Therapy and Rehabilitation*

REHABILITATION CENTER, LIBERTY MUTUAL INSURANCE Co., Boston, Massachusetts

Stanwood L. Hanson, *Director of Rehabilitation*Miss Elizabeth F. Shepard, O.T.R., *Director of Occupational Therapy*

SHEPPARD AND ENOCH PRATT HOSPITAL, Towson, Maryland

Harry M. Murdock, M.D., *Medical Director*Mrs. Marshall Price, O.T.R., *Director of Occupational Therapy*

U. S. ARMY HOSPITALS

Office of the Surgeon General, Washington, D.C.

Emma E. Vogel, Col., W.M.S.C.; *Chief, Women's Medical Specialist Corps*Ruth A. Robinson, Lt. Col., W.M.S.C.; *Chief Occupational Therapist, Women's Medical Specialist Corps*

VETERANS ADMINISTRATION HOSPITALS

Central Office, Washington, D.C.

A. B. C. Knudson, M.D., *Chief, Physical Medicine and Rehabilitation Division*Miss Dorothy Rouse, O.T.R., *Chief, Occupational Therapy Section*

OUTLINE OF COURSES

The University reserves the right to withdraw or modify these courses or to change the instructors as may be necessary.

NOTE:—For electives and additional courses open to students in occupational therapy, consult the Announcements of Teachers College and the School of General Studies.

DEGREE COURSE

JUNIOR YEAR

Winter Session

***Occupational Therapy 11—Theory of occupational therapy.** 2 points. Professor Franciscus and special lecturers.

A general survey of the field. History and development of occupational therapy with special references to present uses and techniques. Supplementary reading and reports. Orientation visits to hospital services.

Pathology 31—Elementary studies in pathology. 1 point. Dr. King.

Lectures to outline the basic alterations which occur in body tissues due to injury and diseases; alteration of function resulting from these influences.

Psychology 33—Abnormal psychology. 2 points. Dr. Burgemeister.

Lectures in this course describe the common mental maladjustments, undertaking to explain them in terms of general principles. The social implications of abnormalities are explained.

Prerequisite: General psychology.

Ethics 39—Ethics and institutional aspects of physical medicine. 1 point. Professor Snow.

Lectures governing appropriate conduct of medical assistants in the routine of their work. Orientation of medical workers toward institutional contacts.

***Physiology 55—Basic human physiology.** 2 points. Dr. Alpert.

The dynamics of human processes, stressing the interrelationships of the various bodily systems.

Neuroanatomy 95—Anatomy of the nervous system. 1 point. Professor Sciarra.

The anatomy of the nervous system of man, including: the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

***Anatomy 155—Human anatomy.** 3 points. Professors Elftman and Noback.

This course provides instruction in the basic and related histology, anatomy, and physiology necessary for understanding the human body, especially the muscle-joint-bone unit. It includes demonstration on the human cadaver.

O.T. Fine Arts 11—Needlecrafts. 2 points. Miss Brokaw and Mrs. Rikoon.

The course includes instruction in clothing construction, hand sewing, and various forms of embroidery and allied needlecrafts (knitting, crocheting, and tatting). Care and use of the sewing machine, pattern alterations, the principles of upholstering, slip covering, and drapery making. Hospital projects and the use of needlecrafts for prevocational training are stressed.

Materials charge.

O.T. Fine Arts 27—Pottery. 2 points. Mr. Leary.

An introduction to the vast possibilities and methods of using clay to create functional pottery with coils, with the potter's wheel, and by casting. Moldmaking methods of decorating and glazing and firing of kilns are studied for practical use in teaching.

Materials charge.

* Also an Advanced Standing course.

O.T. Fine Arts 163—Elementary woodwork. 2 points. Miss Brokaw and Mrs. Rikoon.

This course is designed to orient the student to the fundamentals of woodworking. By the making of small, simple projects, and occupational therapy equipment, the student is given the opportunity of identifying the hand tools and learning the correct use and care of them. Good design, careful workmanship, and strong construction are stressed.

*Spring Session****Occupational Therapy 12—Theory of occupational therapy.** 2 points. Professor Franciscus and special lecturers.

Application in the major medical fields. Professional and hospital ethics and etiquette. Supplementary reading and reports. Field visits.

***Psychiatry 102—Elementary psychiatry.** 2 points. Professors Carter and Sciarra and Dr. Glaser.

Etiology and symptomatology of the major and minor psychoses including the psychoneuroses and their treatment. Lectures with clinical demonstrations.

Prerequisite: *Psychology 33* or equivalent.

***Neurology 106—Clinical neurology.** 2 points. Dr. Greene.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerve.

Recreation 170—Rehabilitation techniques for the disabled. 2 points. Misses Preston and Talmud.

Practical rehabilitation techniques exemplified through lecture, demonstration, and practice in recreation with particular medical emphasis.

T.C. Biology 253b—Muscles, bones, and joints. 1 point. Miss Leavell.

For students who wish additional study on bones, joints, and muscles and experience in handling laboratory materials.

T.C. Fine Arts 101T—Fundamentals of design. 2 points. Mr. Oppen.

The fundamental principles of design and their interrelations are studied through experiences in two- and three-dimensional designing. Practice in decorative and abstract design for textiles, posters, ceramics, and other art forms. Museum and store visits, lectures, readings, and discussions.

Materials charge.

O.T. Fine Arts 30—Elementary weaving. 3 points. Miss Brokaw and Mrs. Rikoon.

Problems include the finger weaves and small appliances, such as cards, inkle looms, and rigid frames. Stress is laid on the mechanics and operation of loom weaving on a two-harness loom. A museum trip.

Materials charge.

O.T. Fine Arts 14—General crafts. 3 points. Miss Brokaw and Mrs. Rikoon.

A continuation of *O.T. Fine Arts 13*, including: cord knotting, netting, braiding, rugmaking, chair seating, chip carving, and plastics. Emphasis is placed on basic techniques and their use in the practice of occupational therapy. Museum visit.

Materials charge.

O.T. Clerkship 2—Psychiatry. 2 points. Miss Kilburn (coordinator).

Correlation of instruction in abnormal psychology, psychiatry, and occupational therapy theory by assigned patient work-ups in occupational therapy units. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion. Required written reports and field trips.

SENIOR YEAR

*Winter Session***Occupational Therapy 21—Advanced theory of occupational therapy.** 2 points. Miss Kilburn and special lecturers.

Advanced study of theory and techniques in the application of occupational therapy in the various medical fields, including geriatrics, blind and deaf, and hospital and departmental organization and administration. Supplementary reading and reports.

* Also an Advanced Standing course.

Psychology 45—Child development. 2 points. Dr. Blum.

The development of children from birth to maturity. Mental, motor, social, and emotional development at various periods of growth. Consideration of the practical implications of the development and characteristics of children at various age levels with respect to the exceptional child.

Clinical Subjects 101—General medicine and surgery. 2 points. Professor Smith and Dr. Findlay.*General Medicine. Professor Smith.**

A brief outline of the etiology of disease and the medical pathology of the various systems.

General Surgery. Dr. Findlay.

A consideration of the manifestations, complications, and convalescence in medical and surgical conditions for which occupational therapy is prescribed. Clinical lectures and case demonstrations.

***Occupational Therapy 117—Rehabilitation. Professor Franciscus (coordinator) and special lecturers.**

Public and private agencies offering facilities for the physical and vocational rehabilitation of handicapped persons including guidance, training, and placement. A study of the organization and legislation of state and federal vocational rehabilitation to acquaint the student with community resources, especially in terms of present-day trends.

Field trips.

Motor Disabilities 121—Theory and techniques for motor disabilities. 2 points. Professor Snow, Drs. Greene and Hoberman, and Misses Abbott and Cass.

A consideration of motor disabilities due to developmental abnormalities or disease or injury to the central nervous system. Both upper and lower motor neuron affections will be considered. Techniques in the management of these patients with particular stress on the use of physical and occupational therapy in their rehabilitation.

O.T. Fine Arts 105-106—Interpretive design. 2 points. Miss Brokaw and Mrs. Rikoon.

A course in which the principles of design are applied to media used in occupational therapy. Experience in certain art materials is given by work in block printing, stenciling, silk screening, and paper crafts. Museum visit.

Materials charge.

O.T. Fine Arts 165—Advanced woodwork. 2 points. Mr. Hinely.

This course is a continuation of *O.T. Fine Arts 163* and includes an introduction to the uses of power machinery.

O.T. Clerkship 3—Medicine and surgery. 2 points. Miss Kilburn (coordinator).

Correlation of instruction in medicine, surgery, pediatrics, and occupational therapy theory by assigned patient work-ups in occupational therapy units of ward situations. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion.

Required written reports and field trips.

*Spring Session****Occupational Therapy 24—Application to physical injuries. 2 points. Miss Abbott.**

Lecture and laboratory course in application of techniques in treatment of physical injuries and diseases including orthopedic and neurological disabilities. Measuring and charting of joint motion and muscle strength.

Demonstration and return demonstration by the student.

***Kinesiology 104—Applied anatomy and kinesiology. 2 points. Professor Pinkerton.**

Review of gross anatomy of skeletal and muscular systems, mechanics of bodily movement, and analysis of skills used in daily activities and in physical and occupational therapy.

* Also an Advanced Standing course.

***Clinical Subjects 102—Orthopedics, pediatrics, and public health.** 2 points. Drs. Barnard, Knocke, and Wilson.

Orthopedics. Dr. Knocke.

Diseases and injuries of bones, joints, and muscles, causing impairment of function and deformity. Consideration to be given to body mechanics.

Clinical lectures and case demonstrations.

Pediatrics. Dr. Wilson.

A study of the common diseases of childhood.

Public Health. Dr. Barnard.

An orientation course to familiarize the student with phases of preventive medicine and with public health problems including communicable and contagious diseases, tuberculosis, blindness, and deafness.

Exercise 112—Therapeutic exercise. 2 or 3 points. Professors Snow and Pinkerton, Dr. Hoberman, Mrs. Weber, and Miss Hebert.

Fundamentals of muscle reeducation; the application of directed movement as an accessory in the treatment of altered function; includes practice in the treatment of crippled patients.

***O.T. Graphic Arts 1R—Art of hand printing.** 1 or 2 points. Messrs. Loos and Frey.

The fundamentals of printing and its application as a therapeutic exercise for handicapped persons. Instruction in type faces, proofreading, and presswork. The laboratory affords practical application of hand typesetting, including operation of hand and foot presses. Films, demonstrations, and field trips.

***O.T. Fine Arts 17-18—Leather.** 1 or 2 points. Miss Brokaw and Mrs. Rikoon.

A basic course covering the techniques of leather work as used in occupational therapy. Includes tooling, lacing, and decorating of leather. Types of leather and choice of equipment and projects for hospital practice are emphasized.

Materials charge.

O.T. Fine Arts 32—Advanced weaving. 2 points. Miss House.

Weaving on two-, four-, and eight-harness looms. Standard and special weaves. Making of patterns and drafts, including draft reading and tie-up. Experimenting with fibers and weaves with special emphasis on color, texture, and design. Trips to museums and other institutions.

Materials charge.

***O.T. Fine Arts 168—Metalwork and jewelry.** 2 points. Mr. Hinely.

A course in the basic techniques of hammered metal and jewelry. Elementary principles of mechanical drawing.

Materials charge.

O.T. Clerkship 4—Physical disabilities and rehabilitation. 2 points. Professor Franciscus (coordinator).

Correlation of instruction in orthopedics, neurology, and rehabilitation methods by assigned patient work-ups. A rotating clinical schedule is assigned each student. Each experience is followed by a group seminar.

Required written reports and field trips.

ADVANCED STANDING COURSE

Winter Session

All courses marked with an asterisk under Winter Session, Junior Year and Senior Year, must be taken. In addition:

* Also an Advanced Standing course.

O.T. Fine Arts 15—General crafts and needle crafts. 3 points. Miss Brokaw and Mrs. Rikoon.

The more mechanical small crafts, rather than the creative ones, are taught in the general crafts section of this course. The needlecraft section is designed to supplement the student's knowledge and to guide her in the application of all types of needlework to hospital practice of occupational therapy.

Materials charge.

O.T. Fine Arts 17. See Spring Session, Senior Year.

O.T. Fine Arts 167—Woodwork. 2 points. Mr. Hincly.

A course designed to orient students in the fundamentals of woodworking and to develop a reasonable skill in the use of hand tools and finishing processes. An introduction to the use of power tools.

Materials charge.

Spring Session

All courses marked with an asterisk under Spring Session, Junior Year and Senior Year, must be taken. In addition:

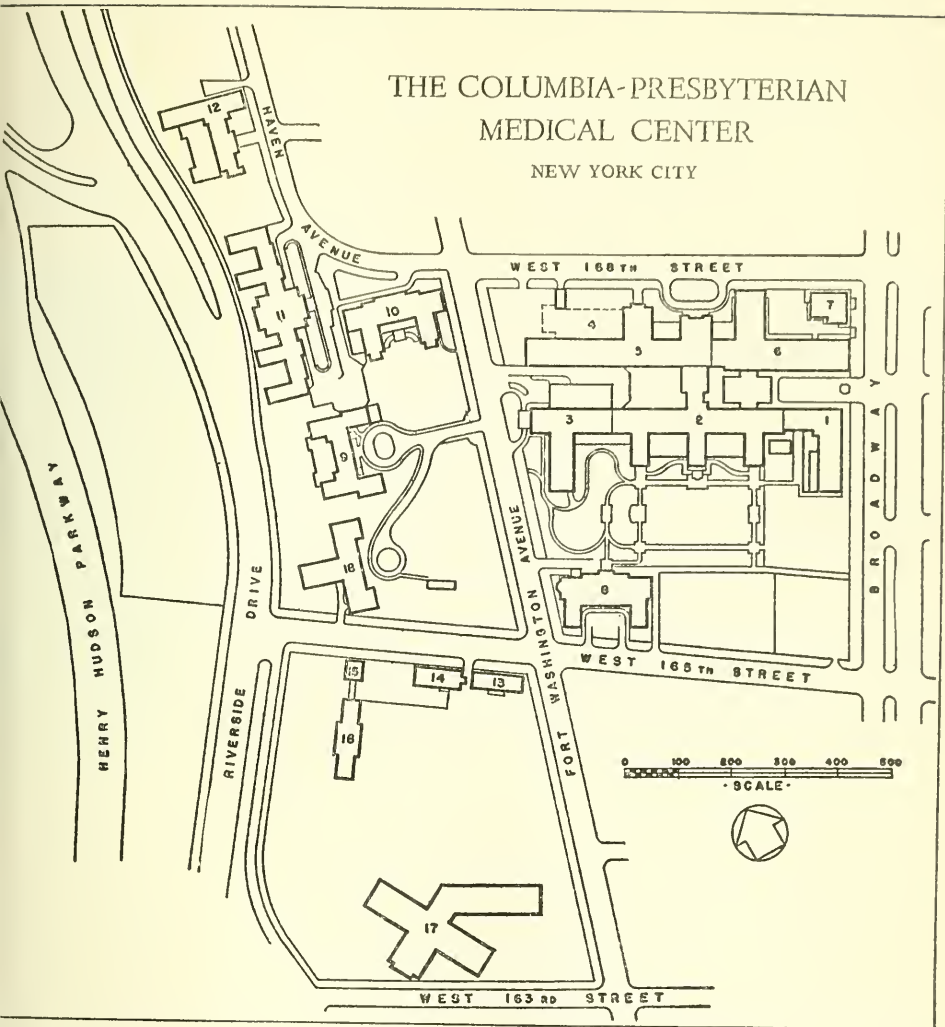
O.T. Fine Arts 34—Weaving. 2 points. Miss House.

Problems include the use of small appliances such as cards, inkle looms, and rigid and string heddle looms. Experimenting with unusual as well as standard yarns for texture and color. Plain weaving, simple harness-controlled patterns, and standard weaves. Learning the mechanisms and setting up of the loom, as well as the making of patterns and reading and writing of drafts. Trips to museums.

O.T. Fine Arts 105-106—See Winter Session, Second Year.

THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER

NEW YORK CITY



- | | |
|--|---|
| 1. Babies Hospital | 8. Institute of Ophthalmology |
| 2. Presbyterian Hospital | 9. Maxwell Hall |
| Sloane Hospital | 10. Neurological Institute |
| New York Orthopaedic Hospital | 11. New York State Psychiatric Institute and Hospital |
| 3. Harkness Pavilion | 12. Bard Hall |
| 4. Power plant | 13, 16. Storage |
| 5. College of Physicians and Surgeons | 14. Shops |
| 6. Vanderbilt Clinic | 15. Housing |
| School of Dental and Oral Surgery | 17. Francis Delafield Hospital, New York City Department of Hospitals |
| 7. Washington Heights Health and Teaching Center, New York City Department of Health | 18. Edward S. Harkness Memorial Hall |
| School of Public Health | |

STACKS

M-Collection

Columbia University
BULLETIN OF INFORMATION

Fifty-third Series, No. 4

February 7, 1953

ANNOUNCEMENT OF COURSES
FOR
PHYSICAL THERAPISTS

OCCUPATIONAL THERAPISTS
COLLEGE OF PHYSICIANS AND SURGEONS



FOR THE WINTER AND SPRING SESSIONS

1953-1954

1754—THE BICENTENNIAL YEAR—1954

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N.Y.

Columbia University Bulletin of Information

Fifty-third Series, No. 4

February 7, 1953

Issued at Columbia University, Morningside Heights, New York 27, N.Y., weekly from January for forty-six consecutive issues. Reentered as second-class matter August 15, 1952, at the Post Office at New York, N.Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees and the Announcements of the several Colleges and Schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon written application to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N.Y. Copies may be obtained in person from the Office of the Secretary, 213 Low Memorial Library.

C. U. P. 7,100—1953

INFORMATION

Application blanks and further information about the courses in this Announcement may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y. The office is open weekdays 9 A.M. to 5 P.M.; Saturdays by appointment. Telephone: WAdsworth 3-2500, extension 7941.

WINTER SESSION

September 24, 1953, through January 28, 1954
Registration—September 21 through 23

SPRING SESSION

February 3, 1954, through May 27, 1954
Registration—February 1 through 2



COLUMBIA-PRESBYTERIAN MEDICAL CENTER

Columbia University

in the City of New York

ANNOUNCEMENT OF
COURSES FOR
PHYSICAL THERAPISTS AND
OCCUPATIONAL THERAPISTS

FOR THE WINTER AND SPRING SESSIONS

1953-1954



COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N.Y.

UNIVERSITY CALENDAR

Dates for registration and beginning and ending of sessions in the Schools of Medicine and Dental and Oral Surgery and general calendar information for Barnard College, Teachers College, the College of Pharmacy and the New York School of Social Work may be obtained from the Announcements of these Schools.

1953

AUGUST 1. Saturday. Last day for filing application or renewal of application for all degrees and certificates to be awarded in October and for the degree of A.M. to be awarded in December. The privilege of later application may be granted on payment of a late fee.

Last day for filing application for deficiency and special examinations to be held in September. The privilege of later application may be granted on payment of a late fee.

SEPTEMBER 14. Monday, through September 18, Friday. Deficiency examinations.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE WINTER SESSION

SEPTEMBER 18. Friday, through September 23, Wednesday. For students in Dramatic Arts, General Studies, and Painting and Sculpture.

SEPTEMBER 21. Monday, through September 23, Wednesday. For students in Columbia College, Architecture, Dental Hygiene, Engineering (undergraduate), Journalism, Law, Library Service, Occupational Therapy, Optometry, Physical Therapy, and Public Health.

SEPTEMBER 21. Monday, through September 26, Saturday. For students in Business, Engineering (graduate), International Affairs, Political Science, Philosophy, and Pure Science.

Students allowed to register after the periods specified must pay a late fee.

SEPTEMBER 24. Thursday. Classes begin.

OCTOBER 3. Saturday. Last day for making changes in programs for Winter Session.

No refund of fees for courses dropped after this date.

OCTOBER 8. Thursday. Last day for filing at the office of the Essay and Dissertation Secretary, 210 Butler Library, essays previously approved by departments for the degrees of M.S. and LL.M. (Med.Sc.D. at the office of the Registrar, School of Medicine) to be awarded in October.

OCTOBER 12. Monday. Columbus Day. Not a University holiday.

OCTOBER 28. Wednesday. Award of October degrees.

NOVEMBER 2. Monday. Last day for filing at the office of the Essay and Dissertation Secretary, 210 Butler Library, essays previously approved by departments for the degree of A.M. to be awarded in December.

NOVEMBER 3. Tuesday. Election Day. Holiday.

NOVEMBER 11. Wednesday. Midterm date, Winter Session.

NOVEMBER 24. Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.

NOVEMBER 26. Thursday, through November 29, Sunday. Thanksgiving holidays.

DECEMBER 1. Tuesday. Last day for filing application or renewal of application for all degrees and certificates, except doctoral degrees, to be awarded in February. The privilege of later application may be granted on payment of a late fee.

Last day for filing applications for deficiency or make-up examinations in Law to be taken at the end of the Winter Session.

DECEMBER 16. Wednesday. Award of December degrees.

DECEMBER 21. Monday, through January 3, 1954, Sunday. Christmas holidays.

JANUARY 11. Monday. First Bicentennial Convocation.

JANUARY 17. Sunday. Annual Commemoration Service in St. Paul's Chapel.

JANUARY 18. Monday, through January 28, Thursday. Midyear examinations.

JANUARY 28. Thursday. Winter Session ends.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE SPRING SESSION

JANUARY 29. Friday, through February 2, Tuesday. For students in Dramatic Arts, General Studies, Painting and Sculpture, and Political Science, Philosophy, and Pure Science.

FEBRUARY 1. Monday, through February 2, Tuesday. For all other students.

Students allowed to register after the periods specified must pay a late fee.

FEBRUARY 1. Monday. Last day for filing at the office of the Essay and Dissertation Secretary, 210 Butler Library, essays previously approved by departments for the degrees of A.M., M.S., and LL.M. (Med.Sc.D. at the office of the Registrar, School of Medicine) to be awarded in February.

FEBRUARY 3. Wednesday. Spring Session begins. Classes begin.

FEBRUARY 12. Friday. Lincoln's Birthday. Not a University holiday.

FEBRUARY 13. Saturday. Last day for making changes in programs for Spring Session.

No refund of fees for courses dropped after this date.

FEBRUARY 20. Saturday. Last day for filing application for fellowships and graduate scholarships.

FEBRUARY 22. Monday. Washington's Birthday. Not a University holiday.

FEBRUARY 24. Wednesday. Award of February degrees.

MARCH 1. Monday. Last day for filing application or renewal of application for all degrees and certificates, except doctoral degrees, to be conferred in June. The privilege of later application may be granted on payment of a late fee.

Last day for filing application for deficiency and special examinations to be held in April. The privilege of later application may be granted on payment of a late fee.

MARCH 22. Monday. Midterm date, Spring Session.

APRIL 1. Thursday. Last day for filing application for examination during the Spring Session for the degrees of Ph.D. and Jur.Sc.D.

Last day for filing scholarship applications in Columbia College.

Last day for filing Cutting Fellowship applications.

APRIL 5. Monday, through April 9, Friday. Deficiency examinations.

APRIL 11. Sunday, through April 18, Sunday. Easter holidays.

APRIL 15. Thursday. Last day for filing application for deficiency or make-up examinations in Law to be taken at the end of the Spring Session.

MAY 1. Saturday. Last day for filing application for scholarships in Engineering and Law.

Last day for students in Columbia College to file choice of studies for the coming year. The privilege of filing such a list later may be granted on payment of a late fee.

MAY 15. Saturday. Last day for filing at the office of the Essay and Dissertation Secretary, 210 Butler Library, essays previously approved by departments for the degrees of A.M., M.S., and LL.M. to be conferred in June.

MAY 17. Monday, through May 27, Thursday. Final examinations.

MAY 27. Thursday. Spring Session ends.

MAY 30. Sunday. Baccalaureate Service.

MAY 31. Monday. Columbia College Class Day.

JUNE 1. Tuesday. Conferring of degrees and Second Bicentennial Convocation.

JULY 1. Thursday. Registration in Summer Session begins.

JULY 3. Saturday. Last day for registration in Summer Session for students desiring credit without payment of a late fee.

JULY 5. Monday. Independence Day. Holiday.

JULY 6. Tuesday. Fifty-fifth Summer Session begins.

JULY 7. Wednesday. Last day for making changes in program for the Summer Session.

AUGUST 13. Friday. Final examinations. Fifty-fifth Summer Session ends.

PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

This Announcement describes two separate training courses offered by Columbia University: Physical Therapy and Occupational Therapy. These courses are given at the Columbia-Presbyterian Medical Center under the auspices of the Department of Physical Medicine and Rehabilitation. The courses of study are approved by the Council on Medical Education and Hospitals of the American Medical Association and prepare the student to meet the qualifications for registration in either physical or occupational therapy. For complete details on each of the two training programs, refer to the appropriate section in this Announcement.

ADMISSIONS

Prior to admission to professional courses in physical or occupational therapy, the applicant must have taken preprofessional subjects at an approved college of his choice to the extent of at least sixty semester credits. Should the student desire to complete this work at Columbia University, application should be made directly to Barnard College (undergraduate women), Columbia College (undergraduate men), or the School of General Studies (adult men and women).

Application for transfer to professional courses should be made on the official application form of the school in question and should be filed and accepted well in advance of the time the student expects to begin his studies. For further details on admission requirements and procedure see pages 17 and 30.

REGISTRATION AND EXPENSES

REGISTRATION

Before attending any University course, every student must present himself at the office of the Registrar and file a registration form, giving such information as may be required. The office is situated on the second floor of the College of Physicians and Surgeons, 630 West 168th Street, and is open from 9 A.M. to 5 P.M. daily except Saturdays and holidays, and on Saturday from 9 A.M. to 12 M. The periods set aside for registration of students in physical and occupational therapy for the Winter and Spring Sessions of the academic year 1953-1954 are as follows:

Winter Session: September 21 through September 23.

Spring Session: February 1 through February 2.

Approval of Program.—Programs for all students in physical and occupational therapy must be approved before registration by the Directors in physical and occupational therapy. All changes of program must also be approved by the Directors, and no change of program will be permitted beyond the second Saturday after the opening of the Winter Session or Spring Session (see University Calendar) except by special permission.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. Registration will not be complete until such fees are paid, and no reduction is made for late registration. Checks should be drawn to the order of Columbia University and presented in person or mailed to the office of the Bursar.

Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following fees are prescribed for physical and occupational therapy:

a) University Fee

For each Winter or Spring Session or any part thereof, for students enrolled for:	
From one to four points, inclusive	\$ 5.00
More than four points to nine points, inclusive	10.00
More than nine points	20.00
For each Summer Session or any part thereof	7.00
For any period not longer than a Winter or Spring Session:	
For persons either engaged in research or desiring to use other University facilities	20.00

b) Tuition Fee

For all courses except where a special fee is fixed, per point	25.00
With the proviso that the fee for a Winter or Spring Session in the case of a student enrolled for fifteen or more points in physical therapy or in occupational therapy shall be	375.00

c) Clinical Supervisory Fee

10.00

d) Student Health and Hospitalization Fee

This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospitalization insurance and to pay part of the cost of the student health service. For all students, per academic year	25.00
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e) Fee for Application

For any degree	20.00
For any certificate	10.00

f) Privileges

Late registration or late application for a degree or certificate or for deficiency or special examinations	3.00
Renewal of application for any degree or certificate	1.00
Deficiency and special examinations	3.00

g) Rebates

The University fee and the fee for application for any degree or certificate shall not be subject to rebate.

After the last day of the period provided for change of course, as announced in the Academic Calendar, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

For the ultimate date for the completion of registration and for filing an application for a special examination, or for a certificate, without the payment of an additional fee, see the University Calendar.

A deposit for the use of lockers, keys, apparatus, material, and the like is required of students in certain schools and courses.

Acceptance Fee.—Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Director that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if the applicant does not register for the courses for the following academic year, it will not be returned. If he registers in the Courses for Physical and Occupational Therapy in the class to which he has been admitted, the amount of the acceptance fee will be deducted from his tuition fees.

GENERAL REGULATIONS

RESIDENCE

All women students under twenty-one years of age, who are not living at home or with relatives, are required to secure approval of their residence from the Directors of Training Courses, Office of Physical and Occupational Therapy, College of Physicians and Surgeons. Detailed information concerning desirable accommodations may be obtained from this office.

STUDENT HEALTH SERVICE

In accordance with the requirements of the American Medical Association, a physical examination (including tuberculin tests) will be given each student in the professional courses during the first session of attendance. Further physical examinations will be given during the training period, whenever it is deemed advisable.

Students requiring hospitalization will be taken care of either in the wards of the Medical Center, or elsewhere, under a hospitalization insurance policy.

Daily office hours are held for sick students by the Student Health Service, Room 2-200, Vanderbilt Clinic. Members of the Health Service are available to attend ill students if they live near the Medical Center.

STUDENTS

Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

ABSENCES

It is a student's duty to attend punctually each class or laboratory exercise in each course. For credit toward the certificate and degree, regular attendance is required in addition to the proficiency attested by classwork and examination.

Students prevented by conscientious scruples from complying with academic require-

ments which may be fulfilled only upon days set apart by their church for religious observance should make application to the Office of Physical and Occupational Therapy for an equitable solution.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved powers of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Director. Students withdrawing are required to notify the Registrar immediately.

The Director may, for reasons of weight, grant a leave of absence to a student in good standing.

GRADES AND CREDITS

The student's performance in a course is reported according to the following grades: A, excellent; B, good; C, fair; and F, failure. A, B, and C are passing grades counting for credit toward the degree and accepted as the basis for advancement to a next higher course. A student who does not receive a mark of C or above in a prescribed course must repeat that course.

The mark MU is not a grade and simply implies that in the opinion of the instructor the student may be given the privilege of taking a deficiency examination. When this mark is given at the end of the Winter Session, it does not necessarily mean that the student may not pursue his courses in the Spring Session, but that he will get no credit for the course in question until he has received a definite passing grade.

RESIDENCE HALLS AND OTHER FACILITIES

RESIDENCE HALLS

The Residence Halls of the University are located on or immediately adjacent to the Campus and afford easy access to libraries and classrooms as well as comfortable accommodations in an environment conducive to academic work. They serve also as a center of campus life and provide for students' companionship with other students of like interests. The University, therefore, desires its students to live whenever possible in Residence Halls.

Within several of the Residence Halls are dining rooms maintained for all students and faculty of the University. The Hall infirmaries are largely for the use of those living in the Residence Halls.

Assignment of rooms is made on the session basis. Room payments are due at the beginning of each session, but in case of need other arrangements can be made.

Students coming from out of town to attend evening classes or those wishing to stay overnight at Columbia may secure accommodations by applying to the Livingston Hall Office (for men) or the Johnson Hall Office (for women).

Residence Halls Announcements and application blanks for rooms may be obtained (for men) from the Men's Residence Halls Office, 125 Livingston Hall, Columbia University, New York 27, (for women) from the Johnson Hall Office, 411 West 116th Street, New York 27. The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

Residence for Men

There are four University Residence Halls, on South Quadrangle, which have accommodations for approximately 1,670 men. Hartley Hall, Livingston Hall, and the lower floors of John Jay Hall are reserved for students in Columbia College; Furnald Hall, for law and graduate students; and the upper floors of John Jay Hall, for graduate and professional school students. Rates for the academic year range from \$200 to \$410. There are a few rooms available at \$160 which are assigned only with the approval of the Director of the University Placement Bureau, Alumni House. Application for these accommodations should be filed with the Men's Residence Halls Office, together with the statement that application has been made to the Director of the University Placement Bureau for his approval. These lowest-priced rooms will not be assigned to students holding scholarships amounting to \$400 or more.

All rates are subject to revision if costs change greatly.

The main dining room is on the first floor of John Jay Hall. The lower John Jay Lobby leads to the Lion's Den, a grillroom (open to both men and women students) with facilities for late breakfast, lunch, and dinner.

Residence for Women

Johnson Hall is provided by the University as a residence for women students in the graduate and professional schools. A limited number of rooms are assigned to full-time undergraduate students who are matriculated for a degree. The Hall was erected and particularly designed for the comfort and convenience of women students. With its various social rooms, attractive dining room, and comfortable bedrooms, it offers pleasant conditions for University life. The rates for rooms range from \$320 to \$455 for the academic year. There is a limited number of suites (two adjoining rooms) from \$300-\$390 per person. The rate for two meals a day, breakfast and dinner, is \$350 for the academic year. All rates are subject to change if costs increase greatly. Residents of Johnson Hall are required to take breakfast and dinner in the dining room of Johnson Hall.

OFF-CAMPUS ACCOMMODATIONS

Columbia University maintains a Registry of Off-Campus Accommodations, where the addresses of available furnished rooms in the neighborhood may be obtained. It is not possible to obtain listings by mail as these accommodations are for immediate rental; moreover it is advisable that rooms be engaged only after personal inspection. The Registry is for the use of faculty, staff, and students of the University, and each applicant must show a letter of admission or some other official Columbia correspondence to be eligible for this service. There is no charge to either the student or the landlord and all financial arrangements must be concluded between the applicant and the landlord. The Registry is located in Livingston Hall.

Women under twenty-one years of age are expected to make their selection from a special list of addresses.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge as a center for the religious and social activities of the students. On the main and upper floors, reached by the Campus entrance, are the offices of the Chaplain and his staff and of the three religious counselors. These floors also contain an auditorium, a lounge, meeting room, kitchen, and other facilities. The lower floor, entered from the Broadway side, is occupied by the offices of the University Medical Officer.

UNIVERSITY LIBRARIES

The physical and occupational therapy collection of reference books, periodicals, and pamphlets is housed in the Medical Library, which occupies parts of the three lower floors in the College of Physicians and Surgeons building. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works, through interlibrary loans, and through its unique bibliographic service.

The Library contains approximately one hundred and sixty thousand volumes of books and journals, some five thousand pamphlets, and about two thousand lantern slides on the history of medicine. More than eighteen hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the schools of Medicine, Dentistry, Nursing, Public Health, Physical and Occupational Therapy, and in the hospitals of the Medical Center.

The libraries on Morningside Heights, containing more than two million volumes, are open to all students of physical and occupational therapy. The main collection is housed in Butler Library, and special and departmental collections are located in various other buildings on the campus. They include collections on biology, education, engineering, psychology, sociology, and other subjects related to physical and occupational therapy and supplement the special collections available in the College of Physicians and Surgeons. Books may be borrowed for home use.

Leaflets describing the collections and services of the University Libraries are available in any of the library reading rooms. The Medical Library and all other libraries post their hours of opening and closing.

THE INSTITUTE FOR THE CRIPPLED AND DISABLED

The Institute for the Crippled and Disabled, located at 400 First Avenue, is affiliated with Columbia University and offers broad clinical and educational facilities for the training of physical therapy and occupational therapy students. An outstanding collection of reference books, periodicals, and pamphlets on the handicapped, their problems, and their rehabilitation is housed here, available to students in Occupational and Physical Therapy at all times. An occupational therapy teaching unit, established at the Institute, is used for instruction and houses a skills library. Special equipment for the instruction of kinesiology and for the instruction and laboratory practice of massage is provided for the students in physical therapy.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical

Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 A.M. to 5:30 P.M.; Saturdays, 8:45 A.M. to 1:30 P.M.

STUDENT ACTIVITIES

The Physical Therapy and Occupational Therapy Clubs are the student organizations in which activities of a recreational, social, and professional nature are carried on. Within these Clubs each class of students has its own organization and officers with representatives on the University Student Council.

The Columbia University Student Council, composed of elected representatives from the students of the several schools and faculties of the University, represents the students in matters affecting the student body as a whole, with the object of promoting cooperation and understanding among the students, faculty, and administration.

At the request of the student group and with the approval of the administration, the Occupational Therapy student body functions under an honor system. By means of an Honor Board, with representation from each class, the students are given increased self-responsibility for their conduct in the observance of school regulations.

Students are encouraged to utilize the educational and cultural opportunities offered throughout the University campus and elsewhere in the City of New York.

Graduates of the Physical and Occupational Therapy programs have Alumni Associations, which in turn are eligible for group membership in the Alumni Federation of Columbia University.

STUDENT AID

LOAN FUNDS

Loan funds are provided in a limited amount for the assistance of students, but it is the general policy to grant loans only to students who have satisfactorily completed at least one session of residence at the University. Application is made on a blank which may be obtained from the Office of the Bursar, 310 University Hall. Applications for loans for the Winter Session should be filed by September 15; for the Spring Session, by January 15.

EMPLOYMENT

The University Placement Bureau, located in Alumni House, is that department of the University through which men and women students and graduates are referred to suitable positions during their attendance at the University and after graduation. A booklet describing the facilities of the Placement Bureau and the more general types of employment opportunities available will be mailed upon request. Communications should be addressed to the Director of the University Placement Bureau, Alumni House, Columbia University, New York 27, N.Y.

The Physical and Occupational Therapy Office maintains a listing of positions throughout the country available to graduate therapists. Current graduates and alumni are encouraged to refer to the Office for these positions.

POSTGRADUATE OFFERING

Because of the acute shortage of trained personnel to work with the cerebral palsied, a course has been established to give specialty training in this area of disability. The

course is offered in cooperation with the Coordinating Council for Cerebral Palsy in New York City, Inc., and is available to doctors, occupational therapists, and physical therapists. Three months of full-time instruction will include lectures, seminars, clinics, and clinical practice. Tuition, payable at the time of registration, is \$250. Approximate starting dates are February and September.

Further information and application forms are available from either of the following addresses:

The Coordinating Council for Cerebral Palsy in New York City, Inc.
509 Madison Avenue, New York 22, N.Y.

Office of Physical and Occupational Therapy
630 West 168th Street, New York 32, N.Y.

PHYSICAL THERAPY

ADMINISTRATIVE OFFICERS

- GRAYSON KIRK, Ph.D., LL.D. *President of the University*
- WILLARD COLE RAPPLEYE, A.M., M.D., Sc.D. *Vice President in Charge of
Medical Affairs; Dean, Faculty of Medicine*
- ROBERT C. DARLING, M.D. *Professor of Physical Medicine and Rehabilitation; Executive
Officer, Department of Physical Medicine and Rehabilitation*
- WILLIAM BENHAM SNOW, M.D. . . . *Professor of Physical Medicine; Medical Director,
Training Courses in Physical and Occupational Therapy*
- MARY E. CALLAHAN, B.S., R.N., R.P.T. . . . *Assistant Professor and Director, Training
for Physical Therapists*
- GLADYS L. JAMESON, B.A., R.P.T. *Associate Director, Training for
Physical Therapists*

OFFICERS OF INSTRUCTION

- MARGUERITE ABBOTT, O.T.R. *Motor Disabilities*
B.S., Tufts; Graduate, Boston School of Occupational Therapy
Executive Director, Coordinating Council for Cerebral Palsy
Instructor in Training for Occupational Therapists
- GERTRUDE AMBROSE, R.P.T. *Nursing Procedures, Hydrotherapy,
Therapeutic Exercise, Electrotherapy*
B.A., Hunter; Certificate in Physical Therapy, Stanford
Instructor in Training for Physical Therapists
- EDITH H. BROKAW, O.T.R. *Clinical Subjects*
Graduate, Philadelphia School of Occupational Therapy
Instructor in Training for Occupational Therapists
- BESSIE B. BURGEMEISTER *Abnormal Psychology*
A.B., A.M., Ph.D., Columbia
Research Psychologist, Department of Neurology
Research Assistant in Neurology
- MARY ELIZABETH CALLAHAN, R.N., R.P.T. *Physical Therapy Application
Massage, Seminar, Therapeutic Exercise*
B.S., New York University
Clinton Hospital School of Nursing; Certificate in Physical Therapy, Posse Institute
Assistant Professor and Director, Training for Physical Therapists
- SIDNEY CARTER *Psychiatry*
A.B., Dartmouth; M.D., Boston University
Assistant Professor of Neurology
- ROBERT C. DARLING *Therapeutic Exercise*
A.B., M.D., Harvard
Professor of Physical Medicine and Rehabilitation
- CASSIUS LOPEZ DE VICTORIA *Clinical Subjects*
M.D., New York Medical College
Director, Physical Therapy, St. Clare's Hospital
Instructor in Physical Medicine and Rehabilitation

- HERBERT O. ELFTMAN *Anatomy*
A.B., A.M., California; Ph.D., Columbia
Associate Professor of Anatomy
- MARIE LOUISE FRANCISCUS, O.T.R. *Principles and Practice of
Occupational Therapy*
B.S., Ohio State; Graduate, Philadelphia School of Occupational Therapy
Assistant Professor and Director, Training for Occupational Therapists
- GILBERT H. GLASER *Psychiatry*
A.B., M.D., Columbia
Senior Research Psychiatrist, New York State Psychiatric Institute
Associate in Neurology
- LEONARD J. GOLDWATER *Clinical Subjects*
A.B., Michigan; M.D., Sc.D., New York University; M.S., Columbia
Consultant to the Office of Vocational Rehabilitation of the Federal Security Agency
Professor of Occupational Medicine
- JUSTIN L. GREENE *Motor Disabilities, Neurology*
A.B., Columbia; M.D., Paris
Assistant Attending Neurologist, Neurological Institute
Instructor in Neurology
- ARNO DAVID GUREWITSCH *Massage, Clinical Subjects*
M.D., Basel
Assistant Clinical Professor of Physical Medicine and Rehabilitation; Assistant Attending Physician,
Presbyterian Hospital
- MORTON HOBERMAN *Motor Disabilities, Therapeutic Exercise,
Electrotherapy*
B.S., New York University; M.B., M.D., Wayne
Associate Physician in charge of Physical Therapy, New York State Rehabilitation Hospital
Chief of Physical Therapy, Vanderbilt Clinic; Assistant Attending Physician, Presbyterian Hospital
Assistant Clinical Professor of Physical Medicine and Rehabilitation
- WILLIAM A. HORWITZ *Electrotherapy*
M.D., Albany Medical College; Sc.D., Columbia
Assistant Clinical Professor of Psychiatry
- GLADYS L. JAMESON, R.P.T. *Kinesiology, Massage, Therapeutic
Exercise, Seminar*
A.B., Syracuse; Certificate in Physical Therapy, Columbia
Associate Director, Training for Physical Therapists
- VIRGINIA T. KILBURN *Principles and Practice of
Occupational Therapy*
A.B., Wellesley; Certificate in Occupational Therapy, Columbia
Associate Director, Training for Occupational Therapists
- FREDERICK J. KNOCKE *Orthopedics*
A.B., Princeton; M.D., Cornell
Instructor in Orthopedic Surgery
- MARION D. LAIRD *Clinical Subjects*
B.A., Queens, Ontario; M.D., Toronto
Instructor in Obstetrics and Gynecology, Department of Obstetrics and Gynecology, Presbyterian Hospital
- STANLEY LESSE *Psychiatry*
A.B., University of Pennsylvania; M.D., Jefferson Medical College
Assistant in Neurology
- MILOS J. LOTA *Physics*
M.D., Masaryk University
Research Assistant in Physical Medicine and Rehabilitation

- HARRISON L. McLAUGHLIN *Clinical Subjects*
M.D., Queens University Medical College
Professor of Clinical Orthopedic Surgery
- JAMES LOWRY MILLER *Clinical Subjects*
A.B., North Carolina, M.D., Pennsylvania
Associate Clinical Professor of Dermatology
- JOSEPH MOLDAVER *Electrotherapy*
M.D., Brussels
Associate in Neurology, College of Physicians and Surgeons
- CHARLES ROBERT NOBACK *Anatomy*
B.S., Cornell; M.S., New York University; Ph.D., Minnesota
Assistant Professor of Anatomy
- BERTRAM J. SANGER *Clinical Subjects*
A.B., Texas; M.D., Johns Hopkins
Assistant Clinical Professor of Medicine
- DANIEL SCIARRA *Neuroanatomy*
A.B., M.D., Harvard
Assistant Professor of Neurology
- WILLIAM BENHAM SNOW *Therapeutic Exercise, Orientation,
Clinical Subjects, Electrotherapy, Motor Disabilities*
M.D., Long Island College of Medicine
Medical Director, Training Courses in Physical and Occupational Therapy
Professor of Physical Medicine
- HELEN SPENCER, R.P.T. *Cerebral Palsy*
A.B., Wellesley; Certificate in Physical Therapy, Hospital for Special Surgery
Instructor in Training for Physical Therapists
- WALTER ALEXANDER STEWART *Psychiatry*
A.B., Dartmouth; M.D., Johns Hopkins
Research Assistant in Psychiatry
- BLANCHE TALMUD, R.P.T. *Rehabilitation*
B.S., New York University; Graduate, School of Physical Therapy, New York University
Supervising Physical Therapist, Institute for the Crippled and Disabled
Lecturer in Physical Therapy
- PHILIP S. VASSAR *Pathology*
M.R.C.S., L.R.C.P., London University
Instructor in Pathology
- SONYA EISENMENGER WEBER, Ph.T. *Therapeutic Exercise*
A.B., Vienna; Sc.D., Eastern Reserve
Instructor in Physical Medicine and Rehabilitation
- JEROME P. WEBSTER *Clinical Subjects*
A.B., M.S., Trinity; M.D., Johns Hopkins
Professor of Clinical Surgery

SPECIAL LECTURERS

- ARTHUR ABRAMSON *Clinical Subjects*
B.S., M.D., C.M., McGill
Chief, Physical Medicine Rehabilitation Service, Bronx Veterans Administration Hospital
- OLAV AUSTLID *Kinesiology*
M.D., Vienna
Assistant Director, Physical Medicine, Hospital for Special Surgery

- ELIZABETH M. CARRICK *Social Case Work and Records*
B.S., Ohio State; A.M., New York School of Social Work
Instructor, New York School of Social Work
- MARIAN CASS *Motor Disabilities, Speech*
A.B., Nebraska; A.M., Ed.D., Columbia
Associated with Dr. Winthrop M. Phelps
- ELLEN COVELL *Orientation*
B.S., M.A., Teachers College, Columbia; R.N., St. John's Hospital School of Nursing; R.P.T., Hospital for the Ruptured and Crippled
Educational Director, Queens Program for Rehabilitation
- EDWARD GORDON *Clinical Subjects*
A.B., Harvard; M.D., Tufts College Medical School
Associate Professor, Rehabilitation Medicine
- EDITH HANSEN, R.N., P.H.N., R.P.T. *Electrotherapy*
General Lutheran Hospital School of Nursing
Chief Physical Therapist, Columbia-Presbyterian Medical Center
- MILDRED HARRIS, R.P.T. *Relaxation*
B.A., Vassar; M.A., Columbia; Physical Therapy, Hospital for Special Surgery
- EDWARD F. HARTUNG *Clinical Subjects*
A.B., M.D., Columbia
Assistant Clinical Professor of Medicine, New York Post-Graduate Medical School and Hospital
- JETTA HENDIN, R.P.T. *Motor Disabilities*
B.S., Manitoba
Physical Therapist, Columbia-Presbyterian Medical Center
- SHULAMITH KASTEIN *Therapeutic Exercise*
Speech Pathologist, Department of Audiology and Phonology, Presbyterian Hospital
- HENRY KESSLER *Clinical Subjects*
A.B., M.D., Cornell; A.M., Ph.D., Columbia
Director, The Kessler Institute for Rehabilitation
- LUTIE CLEMONS LEAVELL *Biology*
B.S., A.M., Columbia
Associate Professor, Nursing Education, Teachers College
- ELMER MARJAY *Electrotherapy, Radiation*
M.D., Royal Hungarian Elizabeth Medical School
Chief, Physical Medicine Group, Ray Clinic, Veterans Administration
- JACOB MEISLIN *Clinical Subjects*
B.S., City College of New York; M.D., Lausanne
Chief, Physical Medicine and Rehabilitation, Franklin Delano Roosevelt Hospital
- MARY JANE PRESTON *Recreation*
Graduate in Physical Education, Michigan State Normal
Recreation Supervisor, Pilgrim State Hospital, Brentwood, N. Y.
- JOSEPHINE L. RATHBONE, R.P.T. *General*
A.B., A.M., Wellesley; Ph.D., Columbia
Associate Professor of Health and Physical Education, Teachers College
- BEVERLY CHEW SMITH *Clinical Subjects*
M.D., Virginia
- JOSEPH EARL SNYDER *Orientation*
A.B., Nebraska; M.D., Pennsylvania
Administrative Assistant in Charge of Professional Services, Presbyterian Hospital
- SHIH-CHUN WANG *Physiology*
B.S., Yenching; M.D., Peiping Union Medical; Ph.D., Northwestern
Associate Professor of Physiology

PHYSICAL THERAPY

Physical therapy is the treatment of disease and injury by the use of such natural agents as sunshine, water, exercise, massage, mechanical forces, and electricity. Functional rehabilitation of persons injured by disease or accident is a pressing medical need; the skillful application of physical therapy following injury will do much to shorten the time of disability. The ultimate aim of any treatment is the maximal rehabilitation and adjustment of the patient. The success of this type of treatment is dependent upon the therapist's knowledge, care, and precision in the administration of the intelligent medical prescription.

The course of study here described gives the student a basic knowledge of the normal functions of the human body and of the pathology of those diseases and injuries in which physical therapy can be helpful in the optimum rehabilitation of the patient. In addition to theoretical classroom instruction and demonstrations, students observe treatment procedures and receive practice in teaching hospitals under University supervision.

The curriculum is planned to serve the educational needs of students working towards the Bachelor of Science degree or towards the Certificate of Proficiency in Physical Therapy.

The Bachelor of Science degree is offered upon satisfactory completion of the full Junior and Senior program which includes clinical experience. This program is superimposed upon two years of liberal arts with a minimum of sixty semester credits including the proper science prerequisites.

The Certificate of Proficiency in Physical Therapy is offered upon satisfactory completion of the programs (academic and clinical) prescribed for students of Advanced Standing. This program is superimposed upon the background of one of the following:

- (a) Graduation from an approved school of nursing.
- (b) Bachelor's degree from an accredited college or university.

Graduates of either program will have had a minimum of four years' post-secondary education study including special professional courses in physical therapy acceptable to the New York State Education Department.

Minimum standards for approved schools of physical therapy are set by the American Medical Association through the Council on Medical Education and Hospitals and by the American Physical Therapy Association.

Graduates of either program are eligible for admission to the examination of the American Registry of Physical Therapists and for membership in the American Physical Therapy Association.

ADMISSION REQUIREMENTS

Admission to the professional courses is open to qualified students from nineteen to thirty-five years of age. Students are admitted in September only. Applicants for admission must be graduates of approved high schools or the equivalent, and must satisfy *one* of the following requirements:

Candidates for the degree course of study:

Two years or sixty semester credits in the liberal arts with science requirements as follows:

Six semester credits in biological science

Four semester credits in physics and/or chemistry (usually both are preferred)

Six semester credits in psychology

Candidates for the advanced standing course of study:

- (a) Graduation from an approved college with at least a Bachelor of Science or Bachelor of Arts degree with science requirements as follows:

Eight semester credits in biological science

Six semester credits in physics and/or chemistry (usually both are preferred)

Ten semester credits in social science (of which six must be in psychology)

- (b) *Or* Graduation from an approved school of nursing.

In those subjects for which transfer credit is allowed, a grade of C or better is required.

The ability to swim is required for both programs of study in the second semester. Students unable to swim at the time of admission shall be responsible for securing instruction for themselves before the second semester.

ADMISSION PROCEDURE

Forms to be used in making application for admission may be obtained by writing to the Physical Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. Such applications should be filed several months in advance of the time at which students wish to begin their studies.

Transcripts of all post-secondary education should be forwarded by the registrar of the respective schools directly to the Director of Physical Therapy.

A personal interview will be arranged for each applicant.

ESTIMATED EXPENSES

Following is an itemized estimate of expenses of attendance in the courses in physical therapy:

<i>University Expenses (total course)</i>	<i>Degree Course</i>	<i>Advanced Standing Course</i>
Tuition	\$1,500	\$750
University fees	80	40
Clinical supervisory fee	20	10
Books, materials, equipment, uniforms	105	90
Health and hospital fee	50	25
Degree or certificate application	20	10
<i>Total</i>	\$1,775	\$925

Living Expenses (academic year)

Room	\$320-\$455
Board	350
Subway and bus fares (within program)	50
<i>Total</i>	\$720-\$855

During summer clinical practice periods the students will have a variable amount of living expenses dependent upon the accommodations provided by the individual medical institution to which they are assigned.

COURSE OF STUDY IN PHYSICAL THERAPY

An outline of the program of studies for each year of the course is given below. This course of study meets the requirements of, and is approved by, the Council on Medical Education and Hospitals of the American Medical Association.

DEGREE COURSE

JUNIOR YEAR

Winter Session

		<i>Points</i>
<i>Anatomy</i> 155	Human anatomy	3
<i>Physics</i> 111	Physics applied to physical medicine	2
<i>Pathology</i> 31	Elementary studies in pathology	1
<i>Orientation</i> 39	Professional ethics and institutional organization	1
<i>Massage</i> 3	Essentials of massage	2
<i>Psychology</i> 33	Abnormal psychology	2
<i>Orientation</i> 41	Case records and interprofessional relationships	1
<i>Neuroanatomy</i> 95	Anatomy of the nervous system	1
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2

15

Spring Session

<i>Thermotherapy</i> 10	Heat application and radiation	2
<i>Hydrotherapy</i> 18	Theory and practice, including neuropsychiatric techniques	1
<i>Orthopedics</i> 136	General survey of orthopedics	2
<i>Exercise</i> 112	Therapeutic exercise, including underwater techniques	4
<i>Clinical Experience</i> 2	Introduction to clinical experience	2
<i>Psychiatry</i> 102	Elementary psychiatry	2
<i>Neurology</i> 106	Elementary neurology	2
<i>Recreation</i> 170	Recreation procedures for the disabled	2
<i>Exercise</i> 114	Theory and techniques for inducing relaxation	1

18

June and July: Clinical observation, instruction and supervised practice

SENIOR YEAR

Winter Session

		<i>Points</i>
<i>Electrotherapy</i> 13	Theory and practice of electrotherapy	2
<i>Motor Disabilities</i> 121	Chronic motor disabilities and their treatment	2
<i>Nursing Procedures</i> 17	Simple bandaging, dressings, asepsis and other techniques	1
<i>Clinical Experience</i> 3	Supervised clinical experience	2
<i>Psychiatry</i> 101	Psychosomatic aspects of physical medicine	1
<i>Physiology</i> 157	Human physiology	2
<i>Clinical Subjects</i> 29	Survey of medical and surgical conditions in relation to physical medicine	2

Electives

3

15

<i>Spring Session</i>		<i>Points</i>
<i>Orientation 16</i>	Seminar on selected topics; orientation to occupational therapy	2
<i>Physical Therapy 116</i>	Practical application of physical therapy	2
<i>Clinical Subjects 30</i>	Survey of medical and surgical conditions continued	2
<i>Rehabilitation 150</i>	Rehabilitation techniques and problems of the handicapped	2
<i>Speech 162</i>	Principles and practice of speech science	2
<i>Clinical Experience 4</i>	Supervised clinical experience continued	2
<i>Biology 253 (T.C.)</i>	Anatomy and physiology	1
<i>Electives</i>		2
		15

June: Clinical instruction and supervised practice

ADVANCED STANDING COURSE

<i>Winter Session</i>		<i>Points</i>
<i>Anatomy 155</i>	Human anatomy	3
<i>Physics 111</i>	Physics applied to physical medicine	2
<i>Massage 3</i>	Essentials of massage	2
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Orientation 39</i>	Professional ethics and institutional organization	1
<i>Electrotherapy 13</i>	Theory and practice of electrotherapy	2
<i>Neuroanatomy 95</i>	Anatomy of the nervous system	1
<i>Physiology 157</i>	Human physiology	2
<i>Clinical Subjects 29</i>	Survey of medical and surgical conditions in relation to physical medicine	2
<i>Nursing Procedures 17</i>	Simple bandaging, dressings, asepsis and other techniques	1
<i>Kinesiology 105</i>	Applied anatomy and kinesiology	2
		19

<i>Spring Session</i>		
<i>Thermotherapy 10</i>	Heat application and radiation	2
<i>Hydrotherapy 18</i>	Theory and practice, including neuropsychiatric techniques	1
<i>Orthopedics 136</i>	General survey of orthopedics	2
<i>Exercise 112</i>	Therapeutic exercise including underwater techniques	4
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Neurology 106</i>	Elementary neurology	2
<i>Clinical Subjects 30</i>	Survey of medical and surgical conditions continued	2
<i>Rehabilitation 150</i>	Rehabilitation techniques and problems of the handicapped	2
<i>Exercise 114</i>	Theory and techniques for inducing relaxation	1
<i>Orientation 16</i>	Seminar on selected topics	1
		19

June, July, August and September: Clinical instruction and supervised experience

HOSPITALS AFFILIATED FOR CLINICAL TRAINING

Attendance in the hospitals and clinics listed below is concurrent with regular classroom work in the Winter and Spring Sessions. In addition, all students are required to spend a period during the summer in full-time clinical practice. During this period students attend lectures, clinics, and staff meetings, receive supervised practical experience in physical therapy, and are introduced to related treatment departments.

ASSOCIATION FOR THE AID OF CRIPPLED CHILDREN, New York, N.Y.

Mrs. Alice FitzGerald, *Educational Director*

BLYTHEDALE, Valhalla, N. Y.

Jacob Reingold, *Executive Director*

Carroll Wardlaw, R.P.T., *Head Physical Therapist*

BRONX VETERANS HOSPITAL, New York, N. Y.

Arthur Abramson, M.D., *Chief, Physical Medicine Rehabilitation Service*

Morris Vogel, *Chief of Physical Therapy*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N. Y.

John S. Parke, *Executive Vice President*

William Benham Snow, M.D., *Director, Clinical Physical Medicine*

Presbyterian Hospital

Mrs. Edith Hansen, R.N., R.P.T., *Head Physical Therapist*

Neurological Institute

Mary A. Cover, R.P.T., *Head Physical Therapist*

New York Orthopaedic Hospital

Agatha Hanley, *Head Physical Therapist*

GRACE-NEW HAVEN COMMUNITY HOSPITAL, New Haven, Connecticut

Thomas F. Hines, M.D., *Director of Physical Medicine and Rehabilitation*

Edith Nyman, *Head Physical Therapist*

HARTFORD HOSPITAL, Hartford, Connecticut

John C. Allen, *Physiatrist*

Robert Scherf, *Chief Physical Therapist*

HOSPITAL FOR CHRONIC ILLNESS, Rocky Hill, Connecticut

A. N. Creadick, M.D., *Medical Director*

Nila Kirkpatrick Covalt, M.D., *Chief of Physical Medicine and Rehabilitation*

Annette Wolter, R.P.T., *Supervisor of Physical Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N. Y.

Col. John N. Smith, Jr., *Director*

Blanche Talmud, R.P.T., *Supervising Therapist*

JEWISH SANITARIUM AND HOSPITAL FOR CHRONIC DISEASES, Brooklyn, N. Y.

Murray Chrystal, R.P.T., *Administrative Director of Physical Medicine and Rehabilitation*

KESSLER INSTITUTE FOR REHABILITATION, West Orange, N. J.

William K. Page, Jr., *Administrator*

Henry H. Kessler, M.D., *Medical Director*

Ruth Dickinson, R.P.T., *Director of Physical Therapy*

MARINE HOSPITAL, UNITED STATES PUBLIC HEALTH SERVICE, New York, N. Y.

Samuel M. Paley, M.D., *Director, Physical Medicine*

Esther Anderson, R.P.T., *Chief Physical Therapist*

MORRIS MEMORIAL HOSPITAL, Milton, W. Va.

Sarah Pritchett, R.N., *Superintendent*

Mrs. Georgia Traub, R.P.T., *Chief Physical Therapist*

NEW YORK HOSPITAL, New York, N. Y.

Christian Hansson, M.D., *Director of Physical Medicine*

Margaret Valentine Rennison, R.P.T., *Head Physical Therapist*

NEW YORK REGIONAL OFFICE, VETERANS ADMINISTRATION, RAY CLINICS, New York, N. Y.

Irving Tepperberg, M.D., *Chief, Physical Medicine Rehabilitation Service*

G. DiNubila, *Chief Physical Therapist*

NEW YORK SERVICE FOR ORTHOPEDICALLY HANDICAPPED, INC., New York, N. Y.

Mrs. Sarah Jane Kinoy, *Director*

Dorothy Richards, R.P.T., *Head Physical Therapist*

NEW YORK STATE REHABILITATION HOSPITAL, West Haverstraw, N. Y.

Austin J. Canning, M.D., *Director*

Margaret A. O'Neill, R.P.T., Ph.T., *Director, Department of Physical Therapy*

Erbert Cicenja, R.P.T., *Director of Rehabilitation Section*

ST. GILES CONVALESCENT HOME AND SCHOOL, Garden City, L. I.

Norman D. Bailey, *Acting Director*

Florence A. Liljander, P.T., *Coordinator of Therapies*

OUTLINE OF COURSES

The University reserves the right to withdraw or modify these courses or to change the instructors as may be necessary.

NOTE:—For additional courses open to students in physical therapy, consult the Announcements of Teachers College and the School of General Studies.

DEGREE COURSE

JUNIOR YEAR

Winter Session

***Anatomy 155—Human anatomy.** Lectures and laboratory. 3 pts. Professors Elftman and Noback.

This course provides instruction in the basic and related histology, anatomy, and physiology necessary for understanding the human body, especially the muscle-joint-bone unit. It includes demonstration on the human cadaver.

***Physics 111—Physics applied to physical medicine.** 2 pts. Dr. Lota.

Basic kinetics, radiation, hydro-dynamics, and electricity as they apply to the practice of physical therapy.

***Pathology 31—Elementary studies in pathology.** 1 pt. Dr. Vassar.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alterations of functions resulting from these influences.

***Orientation 39—Professional ethics and institutional organization.** 1 pt. Professor Snow.

Lectures governing appropriate conduct of medical assistants in the routine of their work. Orientation of medical workers toward institutional contacts.

***Massage 3—Essentials of massage.** 2 pts. Professor Callahan and Miss Jameson.

The theory and technique of massage with laboratory demonstrations and practice.

Psychology 33—Clinical psychology. 2 pts. Dr. Burgemeister.

Lectures in this course describe the common mental maladjustments, undertaking to explain them in terms of general psychological principles. The social implications of abnormalities are emphasized.

Prerequisite: General psychology.

Orientation 41—Case records and interprofessional relationships. 1 pt. Mrs. Carrick.

Orientation in case-work methods. Special emphasis is placed on techniques and practice in reading the total record of the patient, in writing intelligent observational reports, and in understanding the methods of other professional hospital personnel.

***Neuroanatomy 95—Anatomy of the nervous system.** 1 pt. Professor Sciarra.

Anatomy of the nervous system of man, including essentials of the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain and spinal cord with particular emphasis on the controls affecting voluntary motion.

***Kinesiology 105—Applied anatomy and kinesiology.** 2 pts. Dr. Austlid and Miss Jameson.

Review of gross anatomy of skeletal and muscular systems, mechanics of bodily movement, and analysis of skills used in daily activities and in physical and occupational therapy.

Spring Session

***Thermotherapy 10—Heat application and radiation.** 2 pts. Dr. Marjay.

A study of spectral radiation and the theory and technique of application of radiation of various types.

* Also an Advanced Standing course.

***Hydrotherapy 18—Theory and practice, including neuropsychiatric techniques.** Lectures and laboratory. 1 pt. Miss Ambrose.

The course concerns physiological effects, technique, and application of water as a therapeutic agent.

***Orthopedics 136—Orthopedics.** 2 pts. Dr. Knocke.

Lectures and clinical presentations descriptive of orthopedic conditions; some discussion as to problems—personal, medical, surgical, Rehabilitation problems common to this group of patients.

***Exercise 112—Therapeutic exercise, including underwater techniques.** 2 or 4 pts. Professors Snow and Darling, Dr. Hoberman, Mrs. Weber, and Miss Ambrose.

Deals with physiology of exercise, muscle evaluations, muscle reeducation, and tests and measurements with particular emphasis on principles with laboratory and practice.

***Psychiatry 102—Elementary psychiatry.** 2 pts. Drs. Carter, Glaser and Lesse.

Etiology and symptomatology of the major and minor psychoses, including the psychoneuroses and their treatment. Lectures with clinical demonstrations and field trips.

***Neurology 106—Clinical neurology.** 2 pts. Dr. Greene.

Symptomatology and treatment in diseases of the brain, spinal cord, and peripheral nerves.

Recreation 170—Recreation procedures for the disabled. 2 pts. Miss Preston and special lecturers.

Practical rehabilitation techniques exemplified through lecture, demonstration, and practice in recreation with a particular medical emphasis.

***Exercise 114—Theory and technique for inducing relaxation.** Lectures and laboratory. 1 pt. Miss Harris.

Methods and practice of relaxation to relieve fatigue, to increase efficiency in hypertensive individuals, and as prescribed treatment.

Clinical Experience 2—Introduction to clinical experience. 2 pts.

Orientation to institutions, physical therapy departments, patients, keeping records, and in giving massage and exercise.

SENIOR YEAR

Winter Session

***Electrotherapy 13—Theory and practice of electrotherapy and miscellaneous physical therapy applications and diagnostic aids.** 2 pts. Professor Snow; and special lecturers.

Techniques of application of electrotherapy. Other miscellaneous physical therapy applications and diagnostic aids not otherwise provided for. Intimate instruction in techniques of application of the various modalities of physical therapy with return demonstration by the student.

Motor Disabilities 121—Lectures and demonstrations. 2 pts. Professor Snow, Drs. Hoberman, Cass, and Greene, and Miss Abbott.

A consideration of motor disabilities due to developmental abnormalities, disease, or injury. Techniques in the management of these patients with particular stress on the use of physical and occupational therapy in their rehabilitation.

***Nursing Procedures 17—Bandaging and dressing.** Lectures and laboratory. 1 pt. Miss Ambrose.

The techniques of bandaging, asepsis, handling of dressings, and bedside conduct.

Clinical Experience 3—Supervised clinical practice. 2 pts.

Consists of lectures, observation, demonstrations, and supervised practice in physical therapy.

Psychiatry 101—Psychosomatic aspects of physical medicine. 1 pt. Dr. Stewart.

The effect of personality factors on sick individuals and a consideration of the problems that occur due to alteration of their psyches as a result of stress of illness.

* Also an Advanced Standing course.

***Physiology 157—Aspects of human physiology. 2 pts. Dr. Wang.**

This course includes the physiology of the nervous system, of circulation, and of respiration. Emphasis is placed on the physiology of exercise to meet the needs of the occupational therapy and physical therapy student. Lectures and laboratory demonstrations.

***Clinical Subjects 29—Survey of medical and surgical conditions in relation to physical medicine. Lectures and demonstrations. 2 pts. Professor Snow and associates.**

This course gives the student a closer acquaintance with disease as it occurs in the practice of physical medicine. Specialists discuss the problems in their fields of practice, including particular pathology, and the needs of physical medicine. This analysis is followed by prescription physical therapy to cover these special indications. There will be further clinical practice in hospitals.

*Spring Session****Clinical Subjects 30—Lectures and demonstration. 3 pts. Professor Snow and associates.**

Continuation of Clinical Subjects 29.

Rehabilitation 150—Rehabilitation techniques and problems of the handicapped. Lectures and demonstrations. 2 pts. Miss Talmud.

Theory, practice, and evaluation of functional activities; types, application, and care of supportive apparatus.

***Orientation 16—Seminar. 1 or 2 pts. Professor Callahan and Misses Kilburn and Jameson.**

Lecture and discussion of topics of importance to the therapist in practice. General survey of occupational therapy. Theoretical principles as applied to major disability areas with particular emphasis of occupational therapy skills in the treatment of physical disabilities.

Biology 253b (T.C.)—Anatomy and physiology. 1 pt. Miss Leavell.

A functional and anatomical study of the bone-muscle-joint units, including nerve and blood supply.

Prerequisite: Biology 153 or equivalent. Laboratory fee \$1.

Speech 162—Principles and practice of speech science. 2 pts. Dr. Cass.

This course covers the basic anatomy and physiology underlying speech science. Consideration will be given to the pathology of speech abnormalities and the therapeutic approach for their correction.

Clinical Experience 4—Supervised clinical experience. 2 pts.

Continuation of *Clinical Experience 3*.

Physical Therapy 116—Practical application of physical therapy. 2 pts. Professor Snow and associates.

Integration and application of the fundamental principles and skills learned to specific situations.

ADVANCED STANDING COURSE

All courses marked with an asterisk in the degree program, Junior and Senior Years, must be taken.

* Also an Advanced Standing course.

OCCUPATIONAL THERAPY

ADMINISTRATIVE OFFICERS

- GRAYSON KIRK, Ph.D., LL.D. *President of the University*
- WILLARD COLE RAPPLEYE, A.M., M.D., Sc.D. . . . *Vice President in Charge of Medical Affairs; Dean, Faculty of Medicine*
- ROBERT C. DARLING, M.D. . *Professor of Physical Medicine and Rehabilitation; Executive Officer, Department of Physical Medicine and Rehabilitation*
- WILLIAM BENHAM SNOW, M.D. . . *Professor of Physical Medicine; Medical Director, Training Courses in Physical and Occupational Therapy*
- MARIE LOUISE FRANCISCUS, B.S., O.T.R. . *Assistant Professor and Director, Training for Occupational Therapists*
- VIRGINIA T. KILBURN, A.B., O.T.R. *Associate Director, Training for Occupational Therapists*

OFFICERS OF INSTRUCTION

- MARGUERITE ABBOTT, O.T.R. . . . *Occupational Therapy Applied to Physical Injuries, Motor Disabilities*
B.S., Tufts; Graduate, Boston School of Occupational Therapy
Instructor in Training for Occupational Therapists
- NORMAN R. ALPERT *Physiology*
A.B., Wesleyan; Ph.D., Columbia
Instructor in Physiology
- GERTRUDE AMBROSE, R.P.T. *Therapeutic Exercise*
B.A., Hunter; Certificate in Physical Therapy, Stanford
Instructor in Training for Physical Therapists
- MICHAEL ANTELL *Public Health*
M.D., Long Island College; M.P.H., Harvard
Assistant Professor of Public Health Practice
- EDITH H. BROKAW, O.T.R. *Design, Leather, General Crafts, Needlecrafts, Weaving, Woodwork*
Graduate, Philadelphia School of Occupational Therapy
Instructor in Training for Occupational Therapists
- BESSIE B. BURGEMEISTER *Clinical Psychology*
A.B., A.M., Ph.D., Columbia
Research Assistant in Neurology
- MARY E. CALLAHAN, R.N., R.P.T. *Therapeutic Exercise*
B.S., New York University; Clinton Hospital School of Nursing; Certificate in Physical Therapy, Pose Institute
Assistant Professor and Director, Training for Physical Therapists
- SIDNEY CARTER *Psychiatry*
A.B., Dartmouth; M.D., Boston University
Assistant Professor of Neurology
- GRAHAM CLARK *Eye Conditions*
B.S., M.D., Virginia
Instructor in Ophthalmology

- ROBERT C. DARLING *Therapeutic Exercise*
A.B., M.D., Harvard
Professor of Physical Medicine and Rehabilitation
- HERBERT O. ELFTMAN *Anatomy*
A.B., A.M., California; Ph.D., Columbia
Associate Professor of Anatomy
- MARIE LOUISE FRANCISCUS, O.T.R. *Rehabilitation, Theory of Occupational Therapy,
Clerkships in Occupational Therapy*
B.S., Ohio State; Graduate, Philadelphia School of Occupational Therapy
Assistant Professor and Director, Training for Occupational Therapists
- EDWARD J. FREY *Printing*
Lecturer, School of General Studies
- GILBERT H. GLASER *Psychiatry*
A.B., M.D., Columbia
Associate in Neurology
- JUSTIN L. GREENE *Motor Disabilities, Neurology*
A.B., Columbia; M.D., Paris
Instructor in Neurology
- MORTON HOBERMAN *Motor Disabilities, Therapeutic Exercise*
B.S., New York University; M.B., M.D., Wayne
Assistant Clinical Professor of Physical Medicine and Rehabilitation
- GLADYS L. JAMESON, R.P.T. *Kinesiology, Therapeutic Exercise*
A.B., Syracuse; Certificate in Physical Therapy, Columbia
Associate Director, Training for Physical Therapists
- VIRGINIA T. KILBURN, O.T.R. *Theory of Occupational Therapy,
Clerkships in Occupational Therapy*
A.B., Wellesley; Certificate in Occupational Therapy, Columbia
Associate Director, Training for Occupational Therapists
- FREDERICK J. KNOCKE *Orthopedics*
A.B., Princeton; M.D., Cornell
Instructor in Orthopedic Surgery
- JOHN S. LEARY *Pottery*
B.F.A., A.M., Ohio State
Instructor in Fine and Industrial Arts, Teachers College
- LUTIE CLEMSON LEAVELL *Biology*
B.S., A.M., M.S., Columbia
Associate Professor of Nursing Education, Teachers College
- STANLEY LESSE *Psychiatry*
A.B., Pennsylvania; M.D., Jefferson
Assistant in Neurology
- YASHA LISENCO *Woodwork, Metalwork and Jewelry*
B.S., City College of New York; A.M., Columbia
Instructor in Fine and Industrial Arts, Teachers College
- MELVIN LOOS *Printing*
Lecturer in Graphic Arts, School of General Studies
Manager, Printing Office, Columbia University Press
- CHARLES ROBERT NOBACK *Anatomy*
B.S., Cornell; M.S., New York University; Ph.D., Minnesota
Assistant Professor of Anatomy
- DANIEL SCIARRA *Neuroanatomy, Psychiatry*
A.B., M.D., Harvard
Assistant Professor of Neurology

- ANITA H. SLOMINSKI, O.T.R. *Cerebral Palsy*
A.B., Indiana; Certificate in Occupational Therapy, Columbia
Instructor in Occupational Therapy
- WILLIAM BENHAM SNOW *Therapeutic Exercise, Ethics,
Motor Disabilities*
M.D., Long Island College of Medicine
Medical Director, Training Courses in Physical and Occupational Therapy
Professor of Physical Medicine
- MARGARET STARK *Design*
A.B., Indiana; A.M., Oberlin
Instructor in Fine and Industrial Arts, Teachers College
- PHILIP S. VASSAR *Pathology*
M.R.C.S., L.R.C.P., London University
Instructor in Pathology
- SONYA EISENMENGER WEBER, Ph.T. *Therapeutic Exercise*
A.B., Vienna; Sc.D., Eastern Reserve
Instructor in Physical Medicine and Rehabilitation
- PAUL E. WILSON *Pediatrics*
A.B., Cornell; Sc.D., M.D., Johns Hopkins
Instructor in Pediatrics
- JOHN A. WOOD *General Medicine*
A.B., M.D., Harvard
Assistant in Medicine

SPECIAL LECTURERS

- OLAV AUSTLID *Kinesiology*
M.D., Vienna
Assistant Director, Department of Physical Medicine, Hospital for Special Surgery
- LUCILLE H. BLUM *Child Development*
B.S., A.M., Ph.D., Columbia
Psychologist, Therapeutic Services, Post-Graduate Center for Psychotherapy, Inc.
- MARION CASS *Motor Disabilities*
A.B., University of Nebraska; A.M., Ed.D., Columbia
Associated with Winthrop M. Phelps, M.D., Baltimore
- CECILE L. CROTTY *Clerkship in Occupational Therapy*
Diploma, Posse-Nissen College of Physical Education
Recreation Instructor, New York State Psychiatric Institute and Hospital
- MARJORIE FISH, O.T.R. *Theory of Occupational Therapy*
A.B., Swarthmore; Graduate, Boston School of Occupational Therapy
Executive Director, American Occupational Therapy Association
- CLAIRE S. GLASSER, O.T.R. *Clerkship in Occupational Therapy*
B.S. in Occupational Therapy, Columbia
Director, Occupational Therapy, Main Hospital of New York Hospital
- FRANCES HEES, O.T.R. *Clerkship in Occupational Therapy*
Graduate, Philadelphia School of Occupational Therapy
Director, Occupational Therapy, Goldwater Memorial Hospital
- MARGARETTE N. HELMLE *Rehabilitation*
Director, Rehabilitation Service, Brooklyn Tuberculosis and Health Association
- FLORENCE E. HOUSE *Weaving*
B.S., A.M., Columbia
Instructor in Weaving

- SHULAMITH KASTEIN *Clerkship in Occupational Therapy,
Rehabilitation, Therapeutic Exercise*
Speech Pathologist, Department of Audiology and Phonology, Columbia-Presbyterian Medical Center
- HELEN C. MATHIAS, O.T.R. *Clerkship in Occupational Therapy*
A.B., Montclair Teachers College; Graduate, Philadelphia School of Occupational Therapy
Supervisor, Occupational Therapy, Bellevue Hospital
- MARY JANE PRESTON *Recreation*
Graduate in Physical Education, Michigan State Normal
Recreation Supervisor, Pilgrim State Hospital, West Brentwood, N. Y.
- JOSEPH EARL SNYDER *Ethics*
A.B., Nebraska; M.D., Pennsylvania
Administrative Assistant In Charge of Professional Services, Presbyterian Hospital
- MILDRED A. SPARGO, O.T.R. *Clerkship in Occupational Therapy*
Graduate, Boston School of Occupational Therapy
Director, Occupational Therapy, Payne-Whitney Psychiatric Clinic of New York Hospital
- MARGUERITE VAUGHAN, O.T.R. *Principles and Practice of Occupational Therapy,
Clerkship in Occupational Therapy, Hospital Orientation*
A.B., Randolph-Macon Woman's College; A.M., Columbia
Senior Occupational Therapist, New York State Psychiatric Institute and Hospital
- THELMA L. WELLERSON, O.T.R. *Clerkship in Occupational Therapy,
Hospital Orientation*
B.S. in Occupational Therapy, A.M., Columbia
Director, Occupational Therapy, Institute for the Crippled & Disabled
- HELEN P. WHITE, O.T.R. *Principles and Practice of Occupational Therapy,
Clerkship in Occupational Therapy, Hospital Orientation*
A.B., University of Michigan; A.M., New York University; Graduate, Philadelphia School of Occupational Therapy
Director, Occupational Therapy, Columbia-Presbyterian Medical Center

OCCUPATIONAL THERAPY

Occupational therapy is the administration of medically prescribed treatment in the form of supervised activity for persons injured in body or mind by accident or disease. Creative and manual arts, recreational activities, educational pursuits, prevocational exploration and the activities of daily living are used in modern occupational therapy programs to improve physical function and to promote mental, social, and economic adjustment of the patient.

Occupational therapy has grown and expanded rapidly as an aid to recovery and a guide to vocational rehabilitation of both civilians and service personnel due to impetus from the two World Wars. Occupational therapy is filling an increasingly important role in the postwar programs.

Both men and women are admitted to the professional courses, depending upon individual qualifications. There are rapidly increasing numbers of challenging opportunities for men in the field.

Two courses of study are offered: one of twenty-five months' duration leading to the Bachelor of Science degree, and one of seventeen months' duration leading to a Certificate. See Admission Requirements below:

The curriculum consists of classroom work devoted to courses in the biological, social, and clinical sciences providing a scientific, medical, and theoretical background. At the same time instruction is given in the techniques of creative and manual arts, activities of daily living, recreational, educational, and prevocational activities as they enter into the actual practice of occupational therapy. Correlated with theoretical classroom instruction, students observe treatment procedures in the Occupational Therapy units of several hospitals and institutions of the metropolitan area. A program of student clerkships in conjunction with the same institutions permits students to study treatment problems of specific diagnostic classifications as they are introduced in the medical lecture series, by means of the case study and laboratory method. In addition, there is a nine-month period of clinical practice in teaching hospitals under the supervision of the University.

The courses described in this Announcement meet the requirements set forth by the American Occupational Therapy Association and by the Council on Medical Education and Hospitals of the American Medical Association, as published in their *Essentials of an Acceptable School of Occupational Therapy*, which regulates the standards by which schools are accredited. Graduates of both the Degree course and the Certificate course are eligible for the examination leading to admission to the Registry of Occupational Therapists maintained by the American Occupational Therapy Association. This examination is held throughout the country in February and June of each year. Admission to the Registry is the certification of a therapist to practice.

ADMISSION REQUIREMENTS

Students will be admitted in September only. Applicants for admission must be between the ages of nineteen and thirty-five years. Demands made on the physical endurance and emotional stamina of the therapist require a record of good health. Applicants must be graduates of an approved high school or the equivalent, and must satisfy one of the following requirements:

- A. *Candidates for the Degree.* Students who have satisfactorily completed at least two years of work in a college approved by Columbia University may register for the degree course, to be completed in approximately two years—sixteen months

of theoretical training and nine months of clinical practice. Specific admission requirements include:

1. Sixty (60) semester credits in liberal arts.
2. The above should include the following minima:
 - a. Six (6) semester credits in a biological or physical science.
 - b. Three (3) semester credits in psychology.
 - c. Three (3) semester credits in sociology.
3. A grade of "C" or better is required to receive transfer credit.

NOTE:—Suggested Preprofessional Curriculum is offered on page 32.

B. *Candidates for the Certificate.* Students who hold a baccalaureate degree acceptable to Columbia University may register in the advanced standing course, to be completed in approximately seventeen months—eight months of theoretical training and nine months of clinical practice. Specific admission requirements include:

1. A Bachelor's degree. (See note below).
2. Courses completed for the above degree should include the following minima:
 - a. Six (6) semester credits in a biological or physical science.
 - b. Three (3) semester credits in psychology.
 - c. Three (3) semester credits in sociology.

NOTE:—Graduates with accredited professional training in fields closely related to occupational therapy (i.e., nursing) may be admitted to the advanced standing program.

ADMISSION PROCEDURE

Forms to be used in making application for admission may be obtained by writing to the Occupational Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. Applications should be filed several months in advance of the time at which students wish to begin their studies. Transcripts of all post-secondary school education should be forwarded by the Registrars of the respective schools directly to the Director of Occupational Therapy. A personal interview will be arranged for each applicant.

ESTIMATED EXPENSES

Following is an itemized estimate of expenses of attendance in the courses in occupational therapy.

<i>University Expenses (total course)</i>	<i>Degree Course</i>	<i>Advanced Standing Course</i>
Tuition	\$1,500	\$750
University fees	80	40
Clinical supervisory fee	20	10
Books, materials, equipment, uniforms	240	140
Health and hospital fee	50	25
Degree or Certificate application	20	10
<i>Total</i>	<i>\$1,910</i>	<i>\$975</i>

COLUMBIA UNIVERSITY

Living Expenses (academic year)

Room	\$320-\$455
Board	350
Subway and bus fares (within program)	50
<i>Total</i>	\$720-\$855

Fees for materials and equipment in studio classes are payable at the time of registration and are subject to changes in accord with market prices.

During clinical training students spend approximately four months of the period in residence in hospitals where they receive full maintenance (room, board, and laundry). In some instances a maintenance arrangement is possible for a longer period of time.

There will be nominal transportation expenses for students in hospital affiliations outside the local area.

SUGGESTED PREPROFESSIONAL CURRICULUM

The following suggestions may be helpful to the student or guidance counsellor in planning the two-year college program prior to admission to the professional course leading to the Bachelor of Science Degree:

Six semester credits in each of the following fields: English composition, English literature, biology or zoology, chemistry or physics, psychology, and sociology.

The remaining 24 credits might be chosen from such fields as speech, language, social and political sciences, economics.

Transfer credit is not usually offered for required courses in physical education nor for any courses leading to a specific profession.

COURSE OF STUDY IN OCCUPATIONAL THERAPY

An outline of the program of studies for each year of the course is given below. In the Degree course, two years are spent on the campus in theoretical and technical study. To integrate the theoretical information, the student spends nine to twelve months of full-time clinical practice in mental, general, children's, orthopedic, and tuberculosis services or hospitals. The summer periods are utilized for required clinical practice, thereby enabling the student to complete the full course in approximately two years.

Advanced Standing students completing the course in seventeen months carry a program combining first-year and second-year courses during the one year spent on the campus, followed by nine to twelve months devoted to clinical practice.

DEGREE COURSE

JUNIOR YEAR

Winter Session

		<i>Points</i>
<i>O.T. Theory 11</i>	Orientation to occupational therapy	2
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Psychology 33</i>	Clinical psychology	2
<i>Orientation 39</i>	Professional ethics and institutional organization	1
<i>Physiology 55</i>	Basic human physiology	2
<i>Neuroanatomy 95</i>	Anatomy of the nervous system	1
<i>Anatomy 155</i>	Human anatomy	3
<i>O.T. Fine Arts 11</i>	Needlecrafts	2
<i>O.T. Fine Arts 163</i>	Elementary woodwork	2
<i>Fine Arts 101T (T.C.)</i>	Fundamentals of Design	2
		—
		18

Spring Session

<i>O.T. Theory 12</i>	Application in major medical fields	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Neurology 106</i>	Elementary neurology	2
<i>Recreation 170</i>	Recreation procedures for the disabled	2
<i>Biology 253b (T.C.)</i>	Anatomy and physiology	1
<i>O.T. Fine Arts 14</i>	General crafts	3
<i>O.T. Fine Arts 26</i>	Pottery	2
<i>O.T. Fine Arts 30</i>	Elementary weaving	3
<i>O.T. Clerkship 2</i>	Case evaluations of psychiatric patients	2
		—
		19

June, July, and August: Clinical practice in psychiatry

SENIOR YEAR

<i>Winter Session</i>		<i>Points</i>
<i>O.T. Theory</i> 21	Departmental organization and administration	2
<i>Psychology</i> 45	Child development	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2
<i>Motor Disabilities</i> 121	Chronic motor disabilities and their treatment	2
<i>O.T. Fine Arts</i> 105	Interpretive design	2
<i>O.T. Fine Arts</i> 165	Advanced woodwork	2
<i>O.T. Clerkship</i> 3	Case evaluations of medical and surgical patients	2
Elective		2
		18
<i>Spring Session</i>		
<i>O.T. Theory</i> 24	Application to physical injuries	2
<i>Clinical Subjects</i> 102	Orthopedics, pediatrics, public health	2
<i>Exercise</i> 112	Therapeutic exercise	2
<i>Rehabilitation</i> 118	Agencies and techniques of rehabilitation	2
<i>O.T. Graphic Arts</i> 1R	Art of hand printing	2
<i>O.T. Fine Arts</i> 18	Leatherwork	2
<i>O.T. Fine Arts</i> 32	Advanced weaving	2
<i>O.T. Fine Arts</i> 168	Metalwork and jewelry	2
<i>O.T. Clerkship</i> 4	Case evaluations in physical and vocation rehabilitation	2
		18

July-January: Six months of clinical practice in specified areas of service

ADVANCED STANDING COURSE

<i>Winter Session</i>		<i>Points</i>
<i>O.T. Theory</i> 11	Orientation to occupational therapy	2
<i>Physiology</i> 55	Basic human physiology	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2
<i>Anatomy</i> 155	Human anatomy	3
<i>O.T. Fine Arts</i> 15	General crafts and needlecrafts	3
<i>O.T. Fine Arts</i> 17	Leatherwork	1
<i>O.T. Fine Arts</i> 27	Pottery	2
<i>O.T. Fine Arts</i> 167	Woodwork	2
		19

*Spring Session**Points*

<i>O.T. Theory</i> 12	Application in major medical fields	2
<i>O.T. Theory</i> 24	Application to physical injuries	2
<i>Clinical Subjects</i> 102	Orthopedics, pediatrics, public health	2
<i>Psychiatry</i> 102	Elementary psychiatry	2
<i>Neurology</i> 106	Elementary neurology	1
<i>Rehabilitation</i> 118	Agencies and techniques of rehabilitation	2
<i>O.T. Graphic Arts</i> 1R	Art of hand printing	2
<i>O.T. Fine Arts</i> 34	Weaving	2
<i>O.T. Fine Arts</i> 106	Interpretive design	2
<i>O.T. Fine Arts</i> 168	Metalwork and jewelry	2

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19

July–April: Nine months of clinical practice in specified areas of service

Additional requirements for all Advanced Standing students:

1. Attendance at a weekly seminar during the winter and spring sessions. Discussions in this seminar are concerned with advanced theory, principles, and practice of occupational therapy.
2. A paper to be written during the clinical practice period in an area of particular interest to the student and related to her clinical experiences. This paper to be submitted two months prior to the completion of clinical practice.

HOSPITALS AND AGENCIES AFFILIATED FOR CLINICAL TRAINING

The nine to twelve months of clinical training consist of full-time practical experience in well-organized and carefully supervised Occupational Therapy Departments under the immediate direction of registered occupational therapists. Clinical training shall be completed within one year following termination of academic work. During this period students attend lectures, clinics, staff meetings, and orientation in related treatment departments, conduct special case studies, and obtain practical experience in special therapeutics, such as recreational, educational, and prevocational activities.

BRATTLEBORO RETREAT, Brattleboro, Vermont

J. Butler Tompkins, M.D., *Superintendent*

Mrs. Ralph Chapman, O.T.R., *Director of Occupational Therapy*

CHILDREN'S REHABILITATION INSTITUTE, Cockeysville, Maryland

Winthrop M. Phelps, M.D., *Medical Director*

Miss Ruth Brunyate, O.T.R., *Director of Occupational Therapy*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N.Y.

John S. Parke, *Executive Vice President*

William Benham Snow, M.D., *Director, Clinical Physical Medicine*

Mrs. Helen P. White, O.T.R., *Chief Occupational Therapist*

COMMUNITY WORKSHOPS OF RHODE ISLAND, INC., Providence, R.I.

Mrs. Iris W. Booth, *Executive Director*

Mrs. Eleanor M. Black, O.T.R., *Director of Occupational Therapy*

CONNECTICUT STATE HOSPITAL, Middletown, Connecticut

Edgar C. Yerbury, M.D., *Superintendent*

Mrs. Alice M. Rogers, O.T.R., *Supervisor of Occupational Therapy*

CRESSON STATE SANATORIUM, Cresson, Pennsylvania

Harry W. Weest, M.D., *Medical Director*

Miss Grace M. Cassidy, O.T.R., *Chief Occupational Therapist*

CURATIVE WORKSHOP, PHILADELPHIA SCHOOL OF OCCUPATIONAL THERAPY, Philadelphia, Pennsylvania

Miss Clare S. Spackman, O.T.R., *Director*

GALLINGER MUNICIPAL HOSPITAL, Washington, D.C.

Crippled Children's Clinic

Philip A. E. Stebbing, M.D., *Superintendent*

Mrs. Helen N. Cromartie, O.T.R., *Director of Occupational Therapy*

GERMANTOWN DISPENSARY AND HOSPITAL, Philadelphia, Pennsylvania

W. T. Sherman Thorndike, M.D., *Managing Director*

Miss Alice Letchworth, O.T.R., *Director of Occupational Therapy*

GRADUATE HOSPITAL OF THE UNIVERSITY OF PENNSYLVANIA, Philadelphia, Pennsylvania

Edwin Taylor, Director

Miss Clare S. Spackman, O.T.R., *Director of Occupational Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N.Y.

Colonel John N. Smith, Jr., *Director*Miss Thelma L. Wellerson, O.T.R., *Director of Occupational Therapy*

JEWISH SANITARIUM AND HOSPITAL FOR CHRONIC DISEASES, Brooklyn, N.Y.

Arthur Feigenbaum, *Superintendent*Mrs. Frances L. Shuff, O.T.R., *Director of Occupational Therapy*

KESSLER INSTITUTE FOR REHABILITATION, West Orange, N.J.

Henry H. Kessler, M.D., *Medical Director*Miss Florence M. Stattel, O.T.R., *Chief Occupational Therapist*

MONTEFIORE HOSPITAL—COUNTRY SANATORIUM, Bedford Hills, N.Y.

Irving Gottsegen, *Assistant Director*Mrs. Dorothy Sebesta, O.T.R., *Occupational Therapy Executive*

NEW YORK CITY DEPARTMENT OF HOSPITALS

Bruce B. Grynbaum, M.D., *Director of Rehabilitation and Physical Medicine*

Bellevue Hospital

Miss Helen C. Mathias, O.T.R., *Supervisor of Occupational Therapy*

City Home for the Blind

Miss Grace Hildenbrand, O.T.R., *Supervisor of Occupational Therapy*

Goldwater Memorial Hospital

Miss Frances E. Heess, O.T.R., *Supervisor of Occupational Therapy*

Sea View Hospital

Mrs. Julia O. Murtha, O.T.R., *Supervisor of Occupational Therapy*

Triboro Hospital

Miss Gertrude Wait, O.T.R., *Supervisor of Occupational Therapy*

NEW YORK HOSPITAL, New York, N.Y.

Children's Clinic

S. Z. Levine, M.D., *Pediatrician in Chief*Mrs. Evelyn W. Krause, O.T.R., *Director of Occupational Therapy*

Main Hospital

Henry N. Pratt, M.D., *Director*Mrs. Claire Glasser, O.T.R., *Director of Occupational Therapy*

Payne Whitney Psychiatric Clinic

Oskar Diethelm, M.D., *Psychiatrist in Charge*Miss Mildred Spargo, O.T.R., *Director of Occupational Therapy*

NEW YORK STATE DEPARTMENT OF HEALTH, DIVISION OF TUBERCULOSIS CONTROL

Robert E. Plunkett, M.D., *Assistant Commissioner*Miss M. Arlene Mellinger, O.T.R., *Supervisor of Occupational Therapy*

Hermann M. Biggs Memorial Hospital, Ithaca, N.Y.

N. Stanley Lincoln, M.D., *Director*Miss Unabelle Emm, O.T.R., *Director of Occupational Therapy*

Mount Morris Tuberculosis Hospital, Mount Morris, N.Y.

Arthur M. Stokes, M.D., *Director*Miss Lenora E. Holland, O.T.R., *Director of Occupational Therapy*

NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE

Miss Virginia M. Scullin, O.T.R., *Director of Occupational Therapy*

Pilgrim State Hospital, Brentwood, L.I.

Harry J. Worthing, M.D., *Senior Director*Miss Helen Hedges, O.T.R., *Supervisor of Occupational Therapy*

New York State Psychiatric Institute and Hospital, New York, N.Y.

Nolan D. C. Lewis, M.D., *Director*Miss Marguerite Vaughan, O.T.R., *Senior Occupational Therapist*

NEW YORK STATE REHABILITATION HOSPITAL, West Haverstraw, N.Y.

Austin J. Canning, M.D., *Director*Miss Viola W. Svensson, O.T.R., *Director of Occupational Therapy*

NIAGARA SANATORIUM, Lockport, N.Y.

Arthur N. Aitken, M.D., *Director*Mrs. Charlotte Briggs, O.T.R., *Director of Occupational Therapy and Rehabilitation*

REHABILITATION CENTER, LIBERTY MUTUAL INSURANCE Co., Boston, Massachusetts

Stanwood L. Hanson, *Director of Rehabilitation*Miss Elizabeth F. Shepard, O.T.R., *Director of Occupational Therapy*

SHEPPARD AND ENOCH PRATT HOSPITAL, Towson, Maryland

Harry M. Murdock, M.D., *Medical Director*Mrs. Marshall Price, O.T.R., *Director of Occupational Therapy*

U. S. ARMY HOSPITALS

Office of the Surgeon General, Washington, D.C.

Nell Wickliffe, Col, W.M.S.C.; *Chief, Women's Medical Specialist Corps*Helen R. Sheehan, Lt. Col., W.M.S.C.; *Chief Occupational Therapist, Women's Medical Specialist Corps*

VETERANS ADMINISTRATION HOSPITALS

Central Office, Washington, D.C.

A.B.C. Knudson, M.D., *Chief, Physical Medicine and Rehabilitation Division*Miss Dorothy Rouse, O.T.R., *Chief, Occupational Therapy Section*

OUTLINE OF COURSES

The University reserves the right to withdraw or modify these courses or to change the instructors as may be necessary.

NOTE:—For electives and additional courses open to students in occupational therapy, consult the Announcements of Teachers College and the School of General Studies.

DEGREE COURSE

JUNIOR YEAR

Winter Session

***Occupational Therapy 11—Orientation to occupational therapy.** 2 pts. Professor Franciscus and special lecturers.

A general survey of the field. History and development of occupational therapy with special references to present uses and techniques. Supplementary reading and reports. Orientation visits to hospital services.

Pathology 31—Elementary studies in pathology. 1 pt. Dr. Vassar.

Lectures to outline the basic alterations which occur in body tissues due to injury and diseases; alteration of function resulting from these influences.

Psychology 33—Clinical psychology. 2 pts. Dr. Burgemeister.

Lectures in this course describe the common mental maladjustments, undertaking to explain them in terms of general principles. The social implications of abnormalities are explained.

Prerequisite: General psychology.

Orientation 39—Professional ethics and institutional organization. 1 pt. Professor Snow.

Lectures governing appropriate conduct of medical assistants in the routine of their work. Orientation of medical workers toward institutional contacts.

***Physiology 55—Basic human physiology.** 2 pts. Dr. Alpert.

The dynamics of human processes, stressing the interrelationships of the various bodily systems.

Neuroanatomy 95—Anatomy of the nervous system. 1 pt. Professor Sciarra.

The anatomy of the nervous system of man, including: the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

***Anatomy 155—Human anatomy.** 3 pts. Professors Elftman and Noback.

This course provides instruction in the basic and related histology, anatomy, and physiology necessary for understanding the human body, especially the muscle-joint-bone unit. It includes demonstration on the human cadaver.

O.T. Fine Arts 11—Needlecrafts. 2 pts. Miss Brokaw and Mrs. Rikoon.

The course includes instruction in clothing construction, hand sewing, and various forms of embroidery and allied needlecrafts (knitting, crocheting, and tatting). Care and use of the sewing machine, pattern alterations, the principles of upholstery, slip covering, and drapery making. Hospital projects and the use of needlecrafts for prevocational training are stressed.

Materials charge.

O.T. Fine Arts 163—Elementary Woodwork. 2 pts. Miss Brokaw and Mrs. Rikoon.

This course is designed to orient the student to the fundamental principles of woodworking with hand tools. Careful workmanship and strong construction are stressed, with emphasis on occupational therapy equipment and hospital projects.

Materials charge.

* Also an Advanced Standing course.

Fine Arts 101T (T.C.)—Fundamentals of design. 2 pts. Miss Stark.

The fundamental principles of design and their interrelations are studied through experiences in two- and three-dimensional designing. Practice in decorative and abstract design for textiles, posters, ceramics, and other art forms. Museum and store visits, lectures, readings, and discussions.

Materials charge.

*Spring Session****Occupational Therapy 12—Application in major medical fields.** 2 pts. Professor Franciscus and special lecturers.

This course stresses the principles and practice of occupational therapy techniques as applied to the tuberculous, the mentally ill, and to patients with medical and surgical diagnoses. Supplementary readings and reports. Field visits.

***Psychiatry 102—Elementary psychiatry.** 2 pts. Professors Carter and Sciarra and Drs. Glaser and Lesse.

Etiology and symptomatology of the major and minor psychoses including the psychoneuroses and their treatment. Lectures with clinical demonstrations and field trips.

Prerequisite: Psychology 33 or equivalent.

***Neurology 106—Elementary neurology.** 2 pts. Dr. Greene.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerve.

Recreation 170—Recreation procedures for the disabled. 2 pts. Miss Preston and special lecturers.

Practical rehabilitation techniques exemplified through lectures, demonstrations, and practice in recreation with particular medical emphasis.

Biology 253b (T.C.)—Anatomy and physiology. 1 pt. Miss Leavell.

A functional and anatomical study of the bone-muscle-joint units, including nerve and blood supply.

Prerequisite: Biology 153 or equivalent.

Laboratory fee \$1.

O.T. Fine Arts 14—General crafts. 3 pts. Miss Brokaw and Mrs. Rikoon.

This course includes many of the smaller crafts, such as: cord knotting, netting, braiding, rugmaking, chair seating, chip carving, and plastic fabrication. Emphasis is placed on basic techniques and their use in occupational therapy. Museum visit.

Materials charge.

***O.T. Fine Arts 26, 27—Pottery.** 2 pts. Mr. Leary.

An introduction to the vast possibilities and methods of using clay to create functional pottery with coils, with the potter's wheel, and by casting. Moldmaking, methods of decorating and glazing, and firing of kilns are studied for practical use in teaching.

O.T. Fine Arts 30—Elementary weaving. 3 pts. Miss Brokaw and Mrs. Rikoon.

Problems include the finger weaves and small appliances, such as cards, inkle looms, and rigid frames. Stress is laid on the mechanics and operation of loom weaving on a two-harness loom. A museum trip.

Materials charge.

O.T. Clerkship 2—Case evaluations of psychiatric patients. 2 pts. Miss Kilburn (coordinator).

Correlation of instruction in abnormal psychology, psychiatry, and occupational therapy theory by assigned patient work-ups in occupational therapy units. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion. Required written reports and field trips.

SENIOR YEAR

*Winter Session***Occupational Therapy 21—Departmental Organization and Administration.** 2 pts. Miss Kilburn and special lecturers.

Study of departmental organizations and administration in the various medical fields. The techniques of

* Also an Advanced Standing course.

application of occupational therapy in geriatrics and pediatrics are included in this course. Supplementary reading, reports, and field trips.

Psychology 45—Child development. 2 pts. Dr. Blum.

The development of children from birth to maturity. Mental, motor, social, and emotional development at various periods of growth. Consideration of the practical implications of the development and characteristics of children at various age levels with respect to the exceptional child.

***Clinical Subjects 101—General medicine and surgery.** 2 pts. Dr. Wood and another instructor to be announced.

General Medicine. Dr. Wood.

A survey of the more common diseases with emphasis on pulmonary tuberculosis and cardiac disorders. Lectures deal primarily with the relationship of pathological physiology to the development of signs and symptoms of disease.

General Surgery. Instructor to be announced.

A consideration of the manifestations, complications, and convalescence in medical and surgical conditions for which occupational therapy is prescribed. Clinical lectures and case demonstrations.

***Kinesiology 105—Applied anatomy and kinesiology.** 2 pts. Dr. Austlid and Miss Jameson.

Review of gross anatomy of skeletal and muscular systems, mechanics of bodily movement, and analysis of skills used in daily activities and in physical and occupational therapy. Lecture and laboratory.

Motor Disabilities 121—Chronic motor disabilities and their treatment. 2 pts. Professor Snow, Drs. Greene, Hoberman, and Cass, and Miss Abbott.

A consideration of motor disabilities due to developmental abnormalities or disease or injury to the central nervous system. Both upper and lower motor neuron affections will be considered. Techniques in the management of these patients with particular stress on the use of physical and occupational therapy in their rehabilitation.

***O.T. Fine Arts 105-106—Interpretive design.** 2 pts. Miss Brokaw and Mrs. Rikoon.

A course in which the principles of design are applied to occupational therapy media, such as: block printing, stenciling, silk screening, and cardboard construction. Museum visit.

Materials charge.

O.T. Fine Arts 165—Advanced woodwork. 2 pts. Mr. Lisenco.

This course is a continuation of O.T. Fine Arts 163 and includes an introduction to the uses of power machinery.

O.T. Clerkship 3—Case evaluations of medical and surgical patients. 2 pts. Miss Kilburn (coordinator).

Correlation of instruction in medicine, surgery, pediatrics, and occupational therapy theory by assigned patient work-ups in occupational therapy units and ward situations. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion. Written reports and field trips.

Spring Session

***Occupational Therapy 24—Application to physical injuries.** 2 pts. Miss Abbott.

Lecture and laboratory course in the application of techniques in treatment of physical injuries and diseases including orthopedic and neurological disabilities. Demonstration and return demonstration by the student.

***Clinical Subjects 102—Orthopedics, pediatrics, and public health.** 2 pts. Drs. Antell, Knocke, and Wilson.

Orthopedics. Dr. Knocke.

Diseases and injuries of bones, joints, and muscles, causing impairment of function and deformity. Consideration to be given to body mechanics.

Clinical lectures and case demonstrations.

* Also an Advanced Standing course.

Pediatrics. Dr. Wilson.

A study of the common diseases of childhood.

Public Health. Dr. Antell.

An orientation course to familiarize the student with phases of preventive medicine and with public health problems including communicable and contagious diseases, tuberculosis, blindness, and deafness.

***Exercise 112—Therapeutic exercise.** 2 or 4 pts. Professors Snow and Darling, Dr. Hoberman, Mrs. Weber, and Miss Ambrose.

Deals with physiology of exercise, muscle evaluations, muscle reeducation and tests and measurements, with particular emphasis on principles with laboratory and practice.

***Rehabilitation 118—Agencies and techniques of rehabilitation.** 2 pts. Professor Franciscus (coordinator) and special lecturers.

A course designed to acquaint the student with community resources for the physical, psychological, social, and vocational rehabilitation of the handicapped. Legislation and organization of both public and private agencies are studied. The course also includes orientation to visual and auditory disabilities, their management and treatment.

***O.T. Graphic Arts 1R—Art of hand printing.** 1 or 2 pts. Messrs. Loos and Frey.

The fundamentals of printing and its application as a therapeutic exercise for handicapped persons. Instruction in type faces, proofreading, and presswork. The laboratory affords practical application of hand typesetting, including operation of hand and foot presses. Films, demonstrations, and field trips.

***O.T. Fine Arts 17-18—Leatherwork.** 1 or 2 pts. Miss Brokaw and Mrs. Rikoon.

A basic course in hand leatherwork. Techniques of decoration and construction of small projects as used in occupational therapy.

Materials charge.

O.T. Fine Arts 32—Advanced weaving. 2 pts. Miss House.

Weaving on two-, four-, and eight-harness looms. Standard and special weaves. Making of patterns and drafts, including draft reading and tie-up. Experimenting with fibers and weaves with special emphasis on color, texture, and design. Trips to museums and other institutions.

Materials charge.

***O.T. Fine Arts 168—Metalwork and jewelry.** 2 pts. Mr. Lisenco.

A course in the basic techniques of hammered metal and jewelry. Elementary principles of mechanical drawing.

Materials charge.

O.T. Clerkship 4—Case evaluations in physical and vocational rehabilitation. 2 pts. Professor Franciscus (coordinator).

Correlation of instruction in orthopedics, neurology, and rehabilitation methods by assigned patient work-ups. A rotating clinical schedule is assigned each student. Each experience is followed by a group seminar.

Required written reports and field trips.

ADVANCED STANDING COURSE

Winter Session

All courses marked with an asterisk under Winter Session, Junior Year and Senior Year, must be taken. In addition:

O.T. Fine Arts 15—General crafts and needle crafts. 3 points. Miss Brokaw and Mrs. Rikoon.

The general crafts section of this course includes cordage, plastics, wood carving, chair seating, and rug making. The needlecraft section is designed to supplement the student's knowledge and to guide her in the application of all types of needlework to occupational therapy.

Materials charge.

* Also an Advanced Standing course.

O.T. Fine Arts 17-18—Leatherwork. See Spring Session, Senior Year.

O.T. Fine Arts 26-27—Pottery. See Spring Session, Junior Year.

O.T. Fine Arts 167—Woodwork. 2 pts. Mr. Lisenco.

A course designed to orient students in the fundamentals of woodworking and to develop a reasonable skill in the use of hand tools and finishing processes. An introduction to the use of power tools.

Materials charge.

Spring Session

All courses marked with an asterisk under Spring Session, Junior Year and Senior Year, must be taken. In addition:

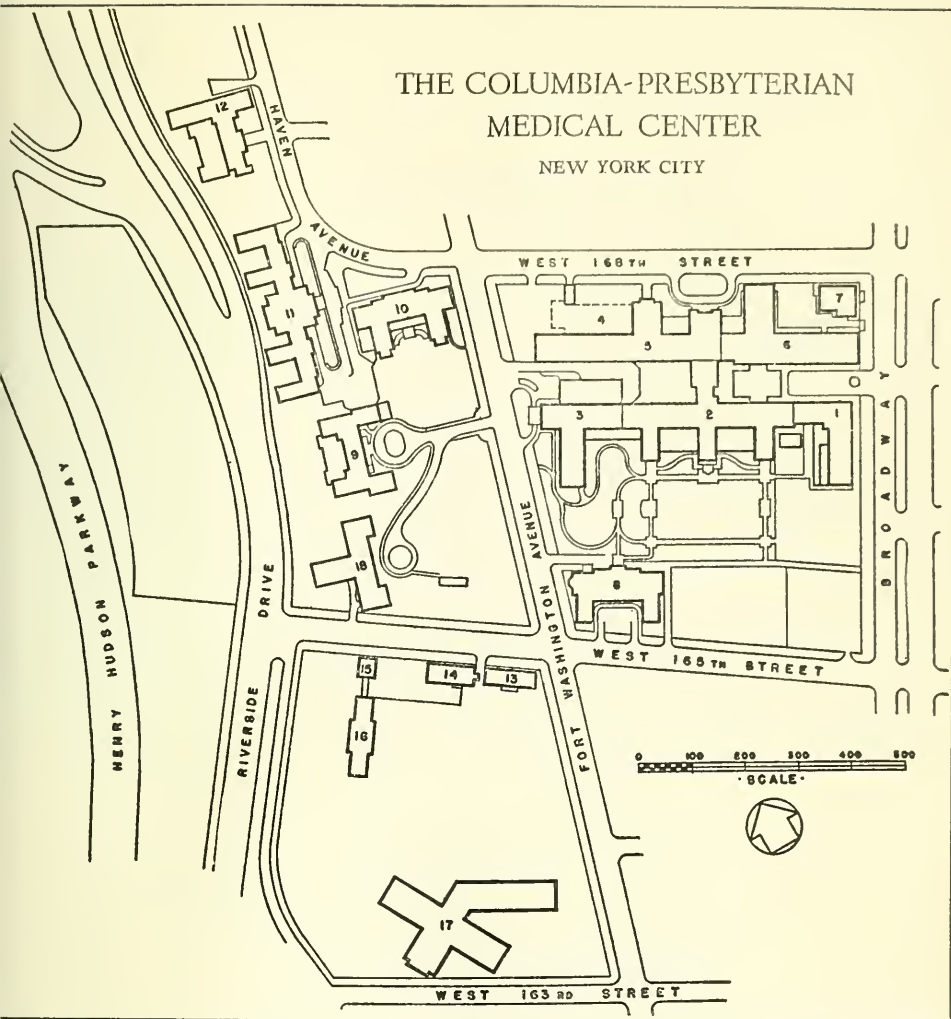
O.T. Fine Arts 34—Weaving. 2 pts. Miss House.

Problems include the use of small appliances such as cards, inkle looms, and rigid and string heddle looms. Experimenting with unusual as well as standard yarns for texture and color. Plain weaving, simple harness-controlled patterns, and standard weaves. Learning the mechanisms and setting up of the loom, as well as the making of patterns and reading and writing of drafts. Trips to museums.

O.T. Fine Arts 105-106—Interpretive Design. See Winter Session, Second Year.

THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER

NEW YORK CITY



- | | |
|--|---|
| 1. Babies Hospital | 8. Institute of Ophthalmology |
| 2. Presbyterian Hospital | 9. Maxwell Hall |
| Sloane Hospital | 10. Neurological Institute |
| New York Orthopaedic Hospital | 11. New York State Psychiatric Institute and Hospital |
| 3. Harkness Pavilion | 12. Bard Hall |
| 4. Power plant | 13, 16. Storage |
| 5. College of Physicians and Surgeons | 14. Shops |
| 6. Vanderbilt Clinic | 15. Housing |
| School of Dental and Oral Surgery | 17. Francis Delafield Hospital, New York City Department of Hospitals |
| 7. Washington Heights Health and Teaching Center, New York City Department of Health | 18. Edward S. Harkness Memorial Hall |
| School of Public Health | |

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BULLETIN OF INFORMATION

Fifty-fourth Series, No. 3

January 30, 1954

ANNOUNCEMENT OF COURSES
FOR
PHYSICAL THERAPISTS

OCCUPATIONAL THERAPISTS
COLLEGE OF PHYSICIANS AND SURGEONS



FOR THE WINTER AND SPRING SESSIONS

1954-1955

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N. Y.

Columbia University Bulletin of Information

Fifty-fourth Series, No. 3

January 30, 1954

Issued at Columbia University, Morningside Heights, New York 27, N.Y., weekly from January for forty-six consecutive issues. Reentered as second-class matter August 15, 1952, at the Post Office at New York, N.Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the Report of the President to the Trustees and the Announcements of the several Colleges and Schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these Announcements will be sent upon written application to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N.Y. Copies may be obtained in person from the Office of the Secretary, 213 Low Memorial Library.

C. U. P. 8,000—1954

INFORMATION

Application blanks and further information about the courses in this Announcement may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N. Y. The office is open weekdays 9 A.M. to 5 P.M.; Saturdays by appointment. Telephone: WAdsworth 3-2500, extension 7941.

WINTER SESSION

September 23, 1954, through January 27, 1955
Registration—September 20 through 22

SPRING SESSION

February 2, 1955, through May 26, 1955
Registration—January 31 through February 1

PRINTED FOR THE UNIVERSITY BY
COLUMBIA UNIVERSITY PRESS



COLUMBIA-PRESBYTERIAN MEDICAL CENTER

UNIVERSITY CALENDAR

Dates for registration and beginning and ending of sessions in the Schools of Medicine and Dental and Oral Surgery and general calendar information for Barnard College, Teachers College, the College of Pharmacy, and the New York School of Social Work may be obtained from the Announcements of these Schools. The academic year of more than eight months which begins on September 23, 1954, and ends on May 26, 1955, consists of a Winter Session and a Spring Session, a total of one hundred and eighty-five days of instruction and examination. There is also a Summer Session of six weeks which begins on July 5, 1955, and ends on August 12, 1955.

1954

AUGUST 2. Monday. Last day for filing application or renewal of application for all degrees and certificates to be awarded in October and for the degree of A.M. to be awarded in December. The privilege of later application may be granted on payment of a late fee.

Last day for filing application for deficiency and special examinations to be held in September. The privilege of later application may be granted on payment of a late fee.

SEPTEMBER 13. Monday, through September 17, Friday. Deficiency examinations.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE WINTER SESSION

SEPTEMBER 17. Friday, through September 22, Wednesday. For students in Dramatic Arts, General Studies, and Painting and Sculpture.

SEPTEMBER 20. Monday, through September 22, Wednesday. For students in Columbia College, Architecture, Dental Hygiene, Engineering (undergraduate), Journalism, Law, Library Service, Occupational Therapy, Optometry, Physical Therapy, and Public Health.

SEPTEMBER 20. Monday, through September 25, Saturday. For students in Business, Engineering (graduate), International Affairs, Political Science, Philosophy, and Pure Science.

Students allowed to register after the periods specified must pay a late fee.

SEPTEMBER 23. Thursday. 201st Academic Year. Classes begin.

OCTOBER 2. Saturday. Last day for making changes in programs for Winter Session.

No refund of fees for courses dropped after this date.

OCTOBER 8. Friday. Last day for filing at the office of the Essay and Dissertation Secretary, 210 Butler Library, essays previously approved by departments for the degrees of M.S. and LL.M. (Med.Sc.D. at the office of the Registrar, School of Medicine) and for certificates in the several Regional Institutes to be awarded in October.

OCTOBER 12. Tuesday. Columbus Day. Not a University holiday.

OCTOBER 27. Wednesday. Award of October degrees.

OCTOBER 31. Sunday. Third Bicentennial Convocation.

NOVEMBER 1. Monday. Last day for filing at the office of the Essay and Dissertation Secretary, 210 Butler Library, essays previously approved by departments for the degree of A.M. and for certificates in the several Regional Institutes to be awarded in December.

NOVEMBER 2. Tuesday. Election Day. Holiday.

NOVEMBER 10. Wednesday. Midterm date, Winter Session.

NOVEMBER 23. Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.

NOVEMBER 25. Thursday, through November 28, Sunday. Thanksgiving holidays.

DECEMBER 1. Wednesday. Last day for filing application or renewal of application for all degrees and certificates, except doctoral degrees, to be awarded in February. The privilege of later application may be granted on payment of a late fee.

Last day for filing applications for deficiency or make-up examinations in Law to be taken at the end of the Winter Session.

DECEMBER 22. Wednesday. Award of December degrees.

DECEMBER 22. Wednesday, through January 4, 1955, Tuesday. Christmas holidays.

JANUARY 16. Sunday. Annual Commemoration Service in St. Paul's Chapel.

JANUARY 17. Monday, through January 27, Thursday. Midyear examinations.

JANUARY 27. Thursday. Winter Session ends.

DATES FOR REGISTRATION (INCLUDING PAYMENT OF FEES) FOR THE SPRING SESSION

JANUARY 28. Friday, through February 1, Tuesday. For students in Dramatic Arts, General Studies, Painting and Sculpture, and Political Science, Philosophy, and Pure Science.

JANUARY 31. Monday, through February 1, Tuesday. For all other students.

Students allowed to register after the periods specified must pay a late fee.

FEBRUARY 1. Tuesday. Last day for filing at the office of the Essay and Dissertation Secretary, 210 Butler Library, essays previously approved by departments for the degrees of A.M., M.S., and LL.M. (Med.Sc.D. at the office of the Registrar, School of Medicine) and for certificates in the several Regional Institutes to be awarded in February.

FEBRUARY 2. Wednesday. Classes begin, Spring Session.

FEBRUARY 12. Saturday. Lincoln's Birthday. Not a University holiday.

FEBRUARY 12. Saturday. Last day for making changes in programs for Spring Session.

No refund of fees for courses dropped after this date.

FEBRUARY 21. Monday. Last day for filing application for fellowships and graduate scholarships.

FEBRUARY 22. Tuesday. Washington's Birthday. Not a University holiday.

FEBRUARY 23. Wednesday. Award of February degrees.

MARCH 1. Tuesday. Last day for filing application or renewal of application for all degrees and certificates, except doctoral degrees, to be conferred in June. The privilege of later application may be granted on payment of a late fee.

Last day for filing application for deficiency and special examinations to be held in April. The privilege of later application may be granted on payment of a late fee.

MARCH 21. Monday. Midterm date, Spring Session.

APRIL 1. Friday. Last day for filing application for oral examination during the Spring Session for the degrees of Ph.D. and J.S.D.

Last day for filing applications for Boese post-doctoral and Cutting fellowships.

APRIL 3. Sunday, through April 10, Sunday. Easter holidays.

APRIL 15. Friday. Last day for filing application for deficiency or make-up examinations in Law to be taken at the end of the Spring Session.

APRIL 18. Monday, through April 22, Friday. Deficiency examinations.

MAY 2. Monday. Last day for filing application in Law.

for scholarships in Columbia College, Engineering.

Last day for students in Columbia College to file choice of studies for the coming year. The privilege of filing such a list later may be granted on payment of a late fee.

MAY 16. Monday. Last day for filing at the office of the Essay and Dissertation Secretary, 210 Butler Library, essays previously approved by departments for the degrees of A.M., M.S., and LL.M. and for certificates in the several Regional Institutes to be conferred in June.

MAY 16. Monday, through May 26, Thursday. Final examinations.

MAY 26. Thursday. Spring Session ends.

MAY 29. Sunday. Baccalaureate Service.

MAY 30. Monday. Memorial Day. Holiday.

MAY 31. Tuesday. Columbia College Class Day.

JUNE 1. Wednesday. Conferring of degrees.

JUNE 30. Thursday. Registration in Summer Session begins.

JULY 1. Friday. Last day for registration in Summer Session for students desiring credit without payment of a late fee.

JULY 4. Monday. Independence Day. Holiday.

JULY 5. Tuesday. Fifty-sixth Summer Session begins.

JULY 6. Wednesday. Last day for making changes in program for the Summer Session.

AUGUST 12. Friday. Final examinations in Summer Session. Fifty-sixth Summer Session ends.

PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

This Announcement describes two separate training courses offered by Columbia University: Physical Therapy and Occupational Therapy. These courses are given at the Columbia-Presbyterian Medical Center under the auspices of the Department of Physical Medicine and Rehabilitation. The courses of study are approved by the Council on Medical Education and Hospitals of the American Medical Association and prepare the student to meet the qualifications for registration in either physical or occupational therapy. For complete details on each of the two training programs, refer to the appropriate section in this Announcement.

ADMISSIONS

Prior to admission to professional courses in physical or occupational therapy, the applicant must have taken preprofessional subjects at an approved college of his choice to the extent of at least sixty semester credits. Should the student desire to complete this work at Columbia University, application should be made directly to Barnard College (undergraduate women), Columbia College (undergraduate men), or the School of General Studies (adult men and women).

Application for transfer to professional courses should be made on the official application form of the school in question and should be filed and accepted well in advance of the time the student expects to begin his studies. For further details on admission requirements and procedure see pages 13 and 25.

REGISTRATION AND EXPENSES

REGISTRATION

Before attending any University course, every student must present himself at the office of the Registrar and file a registration form, giving such information as may be required. The office is situated on the second floor of the College of Physicians and Surgeons, 630 West 168th Street, and is open from 9 A.M. to 5 P.M. daily except Saturdays and holidays, and on Saturday from 9 A.M. to 12 M. The periods set aside for registration of students in physical and occupational therapy for the Winter and Spring Sessions of the academic year 1954-1955 are as follows:

Winter Session: September 20 through September 22.

Spring Session: January 31 through February 1.

Approval of Program.—Programs for all students in physical and occupational therapy must be approved before registration by the Directors in physical and occupational therapy. All changes of program must also be approved by the Directors, and no change of program will be permitted beyond the second Saturday after the opening of the Winter Session or Spring Session (see University Calendar) except by special permission.

FEEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. Registration will not be complete until such fees are paid, and no reduction is made for late registration. Checks should be drawn to the

order of Columbia University and presented in person or mailed to the office of the Bursar. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following fees are prescribed for physical and occupational therapy:

a) University Fee

For each Winter or Spring Session or any part thereof, for students enrolled for:	
From one to four points, inclusive	\$ 5.00
More than four points to nine points, inclusive	10.00
More than nine points	20.00
For each Summer Session or any part thereof	7.00
For any period not longer than a Winter or Spring Session:	
For persons either engaged in research or desiring to use other University facilities	20.00

b) Tuition Fee

For all courses except where a special fee is fixed, per point	25.00
With the proviso that the fee for a Winter or Spring Session in the case of a student enrolled for fifteen or more points in physical therapy or in occupational therapy shall be	375.00

c) Clinical Supervisory Fee

10.00

d) Student Health and Hospitalization Fee

This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospitalization insurance and to pay part of the cost of the student health service. For all students, per academic year	25.00
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e) Fee for Application

For any degree	20.00
For any certificate	10.00

f) Privileges

Late registration or late application for a degree or certificate or for deficiency or special examinations	3.00
Renewal of application for any degree or certificate	1.00
Deficiency and special examinations	3.00

g) Rebates

The University fee, the fee for application for any degree or certificate, and the student health and hospitalization fee shall not be subject to rebate. After the last day of the period provided for change of course, as announced in the University Calendar, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

For the ultimate date for the completion of registration and for filing an application for a special examination, or for a certificate, without the payment of an additional fee, see the University Calendar.

A deposit for the use of lockers, keys, apparatus, material, and the like is required of students in certain schools and courses.

Acceptance Fee.—Within two weeks after an applicant has been notified that his application has been accepted, he must notify the Director that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will belong to the University and, if the applicant does not register for the courses for the following academic year, it will not be returned. If he registers in the Courses for Physical and Occupational Therapy in the class to which he has been admitted, the amount of the acceptance fee will be deducted from his tuition fees.

GENERAL REGULATIONS

RESIDENCE

All women students under twenty-one years of age, who are not living at home or with relatives, are required to secure approval of their residence from the Directors of Training Courses, Office of Physical and Occupational Therapy, College of Physicians and Surgeons. Information concerning desirable accommodations may be obtained from this office.

STUDENT HEALTH SERVICE

A physical examination (including tuberculin tests) will be given each student in the professional courses during the first session of attendance. Further physical examinations will be given during the training period, whenever it is deemed advisable.

Students requiring hospitalization will be taken care of either in the wards of the Medical Center, or elsewhere, under a hospitalization insurance policy.

Daily office hours are held for sick students by the Student Health Service, Room 2-200, Vanderbilt Clinic. Members of the Health Service are available to attend ill students if they live near the Medical Center.

STUDENTS

Acceptance of a student for admission is based on grounds of character and health, as well as on the fulfillment of academic requirements.

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

ABSENCES

It is a student's duty to attend punctually each class or laboratory exercise in each course. For credit toward the certificate and degree, regular attendance is required in addition to the proficiency attested by classwork and examination.

Students who find that stated academic exercises are fixed on days set apart for religious observance by the church to which they belong, and who are prevented by conscientious scruples from performing their University duties on those days, should come to the Office of Physical and Occupational Therapy in advance in order to make any necessary arrangements.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved powers of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper Director. Students withdrawing are required to notify the Registrar immediately.

The Director may, for reasons of weight, grant a leave of absence to a student in good standing.

GRADES AND CREDITS

The student's performance in a course is reported according to the following grades: A, excellent; B, good; C, fair; and F, failure. A, B, and C are passing grades counting for credit toward the degree and accepted as the basis for advancement to a next higher course. A student who does not receive a mark of C or above in a prescribed course must repeat that course.

The mark MU is not a grade and simply implies that in the opinion of the instructor the student may be given the privilege of taking a deficiency examination. When this mark is given at the end of the Winter Session, it does not necessarily mean that the student may not pursue his courses in the Spring Session, but that he will get no credit for the course in question until he has received a definite passing grade.

RESIDENCE HALLS AND OTHER FACILITIES

RESIDENCE HALLS

The Residence Halls of the University are located on or immediately adjacent to the Campus and afford easy access to libraries and classrooms as well as comfortable accommodations in an environment conducive to academic work. They serve also as a center of campus life and provide companionship for students of like interests. The University, therefore, desires its students to live whenever possible in Residence Halls.

Within several of the Residence Halls are dining rooms maintained for all students and faculty of the University. The Hall infirmaries are largely for the use of those living in the Residence Halls.

Assignment of rooms is made on the session basis. Room payments are due at the beginning of each session, but in case of need other arrangements can be made.

Students coming from out of town to attend evening classes or those wishing to stay overnight at Columbia may secure accommodations by applying to the Livingston Hall Office (for men) or the Johnson Hall Office (for women).

Residence Halls Announcements and application blanks for rooms may be obtained (for men) from the Men's Residence Halls Office, 125 Livingston Hall, Columbia University, New York 27; (for women) from the Johnson Hall Office, 411 West 116th Street, New York 27. The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

Residence for Men

There are four University Residence Halls, on South Quadrangle, which have accommodations for approximately 1,670 men. Hartley Hall, Livingston Hall, and the lower floors of John Jay Hall are reserved for students in Columbia College; Furnald Hall, for law and graduate students; and the upper floors of John Jay Hall, for graduate and professional school students. Rates for the academic year range from \$200 to \$410. There are a few rooms available at \$160 which are assigned only with the approval of the Director of the University Placement Bureau, Alumni House. Application for these accommodations should be filed with the Men's Residence Halls Office, together with the statement that application has been made to the Director of the University Placement Bureau for his approval. These lowest-priced rooms will not be assigned to students holding scholarships amounting to \$400 or more.

All rates are subject to revision if costs change greatly.

The main dining room is on the first floor of John Jay Hall. The lower John Jay Lobby leads to the Lion's Den, a grillroom (open to both men and women students) with facilities for late breakfast, lunch, and dinner.

Residence for Women

Johnson Hall is provided by the University as a residence for women students in the graduate and professional schools. A limited number of rooms are assigned to full-time undergraduate students who are matriculated for a degree. The Hall was erected and particularly designed for the comfort and convenience of women students. With its various social rooms, attractive dining room, and comfortable bedrooms, it offers pleasant conditions for University life. The rates for rooms range from \$320 to \$455 for the academic year. There is a limited number of suites (two adjoining rooms) from \$300-\$390 per person. The rate for two meals a day, breakfast and dinner, is \$350 for the academic year. All rates are subject to change if costs increase greatly. Residents of Johnson Hall are required to take breakfast and dinner in the dining room of Johnson Hall.

OFF-CAMPUS ACCOMMODATIONS

Columbia University maintains a Registry of Off-Campus Accommodations, where the addresses of available furnished rooms in the neighborhood may be obtained. It is not possible to obtain listings by mail as these accommodations are for immediate rental; moreover, it is advisable that rooms be engaged only after personal inspection. The Registry is for the use of faculty, staff, and students of the University, and each applicant

must show a letter of admission or some other official Columbia correspondence to be eligible for this service. There is no charge to either the student or the landlord and all financial arrangements must be concluded between the applicant and the landlord. The Registry is located in Livingston Hall.

Women under twenty-one years of age are expected to make their selection from a special list of addresses.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge as a center for the religious and social activities of the student. On the main and upper floors, reached by the Campus entrance, are the offices of the Chaplain and his staff and of the three religious counselors. These floors also contain an auditorium, a lounge, meeting room, kitchen, and other facilities.

UNIVERSITY LIBRARIES

The physical and occupational therapy collection of reference books, periodicals, and pamphlets is housed in the Medical Library, which occupies parts of the three lower floors in the College of Physicians and Surgeons building. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works, through interlibrary loans, and through its unique bibliographic service.

The Library contains approximately two hundred thousand volumes of books and journals. More than twenty-three hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the schools of Medicine, Dentistry, Nursing, Public Health, Physical and Occupational Therapy, and in the hospitals of the Medical Center.

The libraries on Morningside Heights, containing more than two million volumes, are open to all students of physical and occupational therapy. The main collection is housed in Butler Library, and special and departmental collections are located in various other buildings on the campus. They include collections on biology, education, engineering, psychology, sociology, and other subjects related to physical and occupational therapy and supplement the special collections available in the College of Physicians and Surgeons.

Leaflets describing the collections and services of the University Libraries are available in any of the library reading rooms. The Medical Library and all other libraries post their hours of opening and closing.

THE INSTITUTE FOR THE CRIPPLED AND DISABLED

The Institute for the Crippled and Disabled, located at 400 First Avenue, is affiliated with Columbia University and offers broad clinical and educational facilities for the training of physical therapy and occupational therapy students. An outstanding collection of reference books, periodicals, and pamphlets on the handicapped, their problems, and their rehabilitation is housed here, available to students in Occupational and Physical Therapy at all times. An occupational therapy teaching unit, established at the Institute, is used for instruction and houses a skills library. Special equipment for the instruction of kinesiology and for the instruction and laboratory practice of massage is provided for the students in physical therapy.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 A.M. to 5:30 P.M.; Saturdays, 8:45 A.M. to 1:30 P.M.

STUDENT ACTIVITIES

The Physical Therapy and Occupational Therapy Clubs are the student organizations in which activities of a recreational, social, and professional nature are carried on. Within these Clubs each class of students has its own organization and officers with representatives on the University Student Council.

The Columbia University Student Council, composed of elected representatives from the students of the several schools and faculties of the University, represents the students in matters affecting the student body as a whole, with the object of promoting cooperation and understanding among the students, faculty, and administration.

At the request of the student group and with the approval of the administration, the Occupational Therapy student body functions under an honor system. By means of an Honor Board, with representation from each class, the students are given increased self-responsibility for their conduct in the observance of school regulations.

Students are encouraged to utilize the educational and cultural opportunities offered throughout the University campus and elsewhere in the City of New York.

Graduates of the Physical and Occupational Therapy programs have Alumni Associations, which in turn are eligible for group membership in the Alumni Federation of Columbia University.

STUDENT AID

LOAN FUNDS

Loan funds are provided in a limited amount for the assistance of students, but it is the general policy to grant loans only to students who have satisfactorily completed at least one session of residence at the University. Application is made on a blank which may be obtained from the Office of the Bursar, 310 University Hall. Applications for loans for the Winter Session should be filed by September 15; for the Spring Session, by January 15.

EMPLOYMENT

The University Placement Bureau, located in Alumni House, is that department of the University through which men and women students and graduates are referred to suitable positions during their attendance at the University and after graduation. A booklet describing the facilities of the Placement Bureau and the more general types of employment opportunities available will be mailed upon request. Communications should be addressed to the Director of the University Placement Bureau, Alumni House, Columbia University, New York 27, N.Y.

The Physical and Occupational Therapy Office maintains a listing of positions throughout the country available to graduate therapists. Current graduates and alumni are encouraged to refer to the Office for these positions.

POSTGRADUATE OFFERING

Because of the acute shortage of trained personnel to work with the cerebral palsied, a course has been established to give specialty training in this area of disability. The course is offered under the sponsorship of United Cerebral Palsy Associations, Inc., and the Coordinating Council for Cerebral Palsy in New York City, Inc. It is available to doctors, occupational therapists, and physical therapists. Two months of full-time instruction for therapists and three weeks for doctors will include lectures, seminars, and clinics, and, for the therapists, clinical practice in addition. Tuition, payable at the time of registration, is \$200 for therapists, and \$100 for doctors. Approximate starting dates are February and September.

Further information and application forms are available from the Office of the Dean, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y.

PHYSICAL THERAPY

ADMINISTRATIVE OFFICERS

- GRAYSON KIRK, Ph.D., LL.D. *President of the University*
- JOHN A. KROUT, Ph.D., L.H.D., LL.D. . . . *Vice President and Provost of the University*
- WILLARD COLE RAPPLEYE, A.M., M.D., Sc.D., Med.Sc.D. . . *Vice President in Charge of Medical Affairs; Dean, Faculty of Medicine*
- ROBERT C. DARLING, M.D. *Professor of Physical Medicine and Rehabilitation; Executive Officer, Department of Physical Medicine and Rehabilitation*
- WILLIAM BENHAM SNOW, M.D. . . . *Professor of Physical Medicine; Medical Director, Courses in Physical and Occupational Therapy*
- MARY E. CALLAHAN, B.S. *Assistant Professor and Director, Training for Physical Therapists*
- GLADYS L. JAMESON, A.M. *Instructor and Associate Director, Training for Physical Therapists*

OFFICERS OF INSTRUCTION

- MARGUERITE ABBOTT, O.T.R., *Instructor in Occupational Therapy; B.S., Tufts; Graduate, Boston School of Occupational Therapy*
- WILLIAM AMOLS, *Instructor in Neurology; A.B., M.D., New York University*
- EDITH H. BROKAW, O.T.R., *Associate in Occupational Therapy; Graduate, Philadelphia School of Occupational Therapy*
- BESSIE B. BURGEMEISTER, *Research Assistant in Neurology; A.B., A.M., Ph.D., Columbia*
- MARY E. CALLAHAN, R.N., R.P.T., *Assistant Professor; B.S., New York University; Clinton Hospital School of Nursing; Certificate in Physical Therapy, Posse Institute*
- SIDNEY CARTER, *Assistant Professor of Neurology; A.B., Dartmouth; M.D., Boston University*
- MARY A. COVER, R.P.T., *Instructor in Physical Therapy; Graduate, Sargent College; Certificate in Physical Therapy, Walter Reed Hospital*
- FREDERICK S. CRAIG, *Instructor in Orthopedic Surgery; M.D., Buffalo*
- LEONARD V. CROWLEY, *Instructor in Pathology; M.D., Vermont*
- ROBERT C. DARLING, *Professor of Physical Medicine and Rehabilitation; A.B., M.D., Harvard*
- CASSIUS LOPEZ DE VICTORIA, *Instructor in Physical Medicine and Rehabilitation; M.D., New York Homeopathic Medical College*
- HERBERT O. ELFTMAN, *Associate Professor of Anatomy; A.B., A.M., California; Ph.D., Columbia*
- GERTRUDE B. FINNERTY, R.P.T., *Associate in Physical Therapy; A.B., Hunter; Certificate in Physical Therapy, Stanford*
- MARIE LOUISE FRANCISCUS, O.T.R., *Assistant Professor; Director, Training for Occupational Therapists; B.S., Ohio State; Graduate, Philadelphia School of Occupational Therapy*
- LEONARD J. GOLDWATER, *Professor of Occupational Medicine; A.B., Michigan; M.D., Med.-Sc.D., New York University; M.S., Columbia*
- EDWARD E. GORDON, *Associate Professor of Rehabilitation Medicine; A.B., Harvard; M.D., Tufts*
- JUSTIN L. GREENE, *Instructor in Neurology; A.B., Columbia; M.D., Paris*
- A. DAVID GUREWITSCH, *Assistant Clinical Professor of Physical Medicine and Rehabilitation; M.D., Basel*
- EDITH HANSEN, R.N., P.H.N., R.P.T., *Instructor in Physical Therapy; General Lutheran Hospital School of Nursing*
- MORTON HOBERMAN, *Assistant Clinical Professor of Physical Medicine and Rehabilitation; B.S., New York University; M.B., M.D., Wayne*
- WILLIAM A. HORWITZ, *Assistant Clinical Professor of Psychiatry; M.D., Albany Medical College; Sc.D., Med.Sc.D., Columbia*
- GLADYS L. JAMESON, R.P.T., *Instructor in Physical Therapy; A.B., Syracuse; A.M., New York University; Certificate in Physical Therapy, Columbia*
- VIRGINIA T. KILBURN, O.T.R., *Instructor in Occupational Therapy; Associate Director, Training for Occupational Therapists; A.B., Wellesley; Certificate in Occupational Therapy, Columbia*
- MARION D. LAIRD, *Instructor in Obstetrics and Gynecology; B.A., Queens, Ontario; M.D., Toronto*
- STANLEY LESSE, *Assistant in Neurology; A.B., Pennsylvania; M.D., Jefferson Medical College*

- MILOS J. LOTA, *Research Assistant in Physical Medicine and Rehabilitation*; M.D., Masaryk University
- HARRISON L. McLAUGHLIN, *Professor of Clinical Orthopedic Surgery*; M.D., Queens University Medical College
- J. LOWRY MILLER, *Associate Clinical Professor of Dermatology*; A.B., North Carolina; M.D., Pennsylvania
- JOSEPH MOLDAVER, *Associate in Neurology*; M.D., Brussels
- CHARLES R. NOBACK, *Associate Professor of Anatomy*; B.S., Cornell; M.S., New York University; Ph.D., Minnesota
- BERTRAM J. SANGER, *Associate Clinical Professor of Medicine*; A.B., Texas; M.D., Johns Hopkins
- DANIEL SCIARRA, *Assistant Professor of Neurology*; A.B., M.D., Harvard
- FREDERICK M. SMITH, *Associate Professor of Clinical Orthopedic Surgery*; A.B., A.M., Yale; M.D., Med.Sc.D., Columbia
- WILLIAM BENHAM SNOW, *Professor of Physical Medicine*; M.D., Long Island College of Medicine
- HELEN SPENCER, R.P.T., *Instructor in Physical Therapy*; A.B., Wellesley; Certificate in Physical Therapy, Hospital for Special Surgery
- WALTER A. STEWART, *Research Assistant in Psychiatry*; A.B., Dartmouth; M.D., Johns Hopkins
- BLANCHE TALMUD, R.P.T., *Instructor in Physical Therapy*; B.S., New York University; Certificate in Physical Therapy, New York University
- SHIH-CHUN WANG, *Associate Professor of Physiology*; B.S., Yenching; M.D., Peiping Union Medical College; Ph.D., Northwestern
- SONYA E. WEBER, Ph.T., *Instructor in Physical Medicine and Rehabilitation*; A.B. Vienna; Sc.D., Eastern Reserve
- JEROME P. WEBSTER, *Professor of Clinical Surgery*; A.B., M.S., Trinity; M.D., Johns Hopkins

SPECIAL LECTURERS

- ARTHUR ABRAMSON, Chief, Physical Medicine Rehabilitation Service, Bronx Veterans Administration Hospital; B.S., M.D., C.M., McGill
- OLAV AUSTLID, Assistant Director, Physical Medicine, Hospital for Special Surgery; M.D., Vienna
- ELIZABETH M. CARRICK, Instructor, New York School of Social Work; B.S., Ohio State; A.M., New York School of Social Work
- ELLEN M. COVELL, R.N., R.P.T., Director of the Queens Program for Rehabilitation; B.S., A.M., Columbia; R.N., St. John's Hospital School of Nursing; Certificate in Physical Therapy, Hospital for the Ruptured and Crippled
- CHARLES R. GOLDSTINE, Director, Prosthetic and Orthopedic Appliance Shops, Institute for the Crippled and Disabled
- MILDRED HARRIS, R.P.T.; A.B., Vassar; A.M., Columbia; Certificate in Physical Therapy, Hospital for Special Surgery
- EDWARD F. HARTUNG, Assistant Clinical Professor of Medicine, New York University Post-Graduate Medical School; A.B., M.D., Columbia
- JETTA HENDIN, R.P.T., Physical Therapist, Columbia-Presbyterian Medical Center; B.S., Manitoba; Certificate in Physical Therapy, Hospital for Special Surgery
- SHULAMITH KASTEIN, Speech Pathologist, Department of Otolaryngology, Columbia-Presbyterian Medical Center; Diploma, Vienna
- HENRY KESSLER, Director, The Kessler Institute for Rehabilitation; A.B., M.D., Cornell; A.M., Ph.D., Columbia
- LUTIE C. LEAVELL, Associate Professor, Nursing Education, Teachers College; B.S., A.M., Columbia
- JACOB MEISLIN, Chief, Physical Medicine and Rehabilitation, Franklin Delano Roosevelt Hospital; B.S., College of the City of New York; M.D., Lausanne
- BEVERLY C. SMITH, A.B., M.D., Virginia
- JOSEPH EARL SNYDER, Administrative Assistant in Charge of Professional Services, Presbyterian Hospital; A.B., Nebraska; M.D., Pennsylvania
- MARION C. TRIPP, Associated with Winthrop M. Phelps, M.D.; A.B., Nebraska; A.M., Ed.D., Columbia

PHYSICAL THERAPY

Physical therapy is the treatment of disease and injury by the use of such agents as sunshine, water, exercise, massage, mechanical forces, and electricity. Functional rehabilitation of persons injured by disease or accident is a pressing medical need; the skillful application of physical therapy following injury will do much to shorten the time of disability. The ultimate aim of any treatment is the maximal rehabilitation and adjustment of the patient. The success of this type of treatment is dependent upon the therapist's knowledge, care, and precision in the administration of the intelligent medical prescription.

The course of study here described gives the student a basic knowledge of the normal functions of the human body and of the pathology of those diseases and injuries in which physical therapy can be helpful in the optimum rehabilitation of the patient. In addition to theoretical classroom instruction and demonstrations, students observe treatment procedures and receive practice in teaching hospitals under University supervision.

The curriculum is planned to serve the educational needs of students working towards the Bachelor of Science degree or towards the Certificate of Proficiency in Physical Therapy.

The Bachelor of Science degree is offered upon satisfactory completion of the full Junior and Senior program which includes clinical experience. This program is superimposed upon two years of college work in liberal arts with a minimum of sixty semester credits including the proper science prerequisites.

The Certificate of Proficiency in Physical Therapy is offered upon satisfactory completion of the programs (academic and clinical) prescribed for students of Advanced Standing. This program is superimposed upon the background of one of the following:

- (a) Graduation from an approved school of nursing.
- (b) Bachelor's degree from an accredited college or university.

Graduates of either program will have had a minimum of four years' post-secondary education study including special professional courses in physical therapy.

Minimum standards for approved schools of physical therapy are set by the American Medical Association through the Council on Medical Education and Hospitals.

Graduates of either program are eligible for admission to the examination of the American Registry of Physical Therapists and for membership in the American Physical Therapy Association.

ADMISSION REQUIREMENTS

Students are admitted in September only. Admission to the professional courses is open to qualified students from nineteen to thirty-five years of age. In subjects taken at other institutions for which transfer credit is allowed, a grade of C or better is required. The ability to swim is required for both programs of study in the second semester. Students unable to swim at the time of admission shall be responsible for securing instruction for themselves before the second semester. Applicants for admission must be graduates of approved high schools or the equivalent, and then must satisfy *one* of the following requirements:

Candidates for the degree course of study:

Two years or sixty semester credits of work in a college approved by Columbia University. Specific admission requirements include:

Six semester credits in biological science

Four semester credits in physics and/or chemistry (preferably both)
Six semester credits in psychology

Candidates for the advanced standing course of study:

- (a) Graduation from an approved college with at least a Bachelor of Science or Bachelor of Arts degree with science requirements as follows:
Eight semester credits in biological science
Six semester credits in physics and/or chemistry (preferably both)
Ten semester credits in social science (of which six must be in psychology)
- (b) *Or* Graduation from an approved school of nursing.

ADMISSION PROCEDURE

Forms to be used in making application for admission may be obtained by writing to the Physical Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. Such applications should be filed several months in advance of the time at which students wish to begin their studies.

Transcripts of all post-secondary education should be forwarded by the registrar of the respective schools directly to the Director of Physical Therapy.

A personal interview will be arranged for each applicant.

ESTIMATED EXPENSES

Following is an itemized estimate of expenses of attendance in the courses in physical therapy:

<i>University Expenses (total course)</i>	<i>Degree Course</i>	<i>Advanced Standing Course</i>
Tuition	\$1,500	\$750
University fees	80	40
Clinical supervisory fee	20	10
Books, materials, equipment, uniforms	105	90
Health and hospital fee	50	25
Degree or certificate application	20	10
<i>Total</i>	\$1,775	\$925

Living Expenses (academic year)

Room	\$320-\$455
Board	500
Subway and bus fares (within program)	65
<i>Total</i>	\$885-\$1,020

During summer clinical practice periods the students will have a variable amount of living expenses dependent upon the accommodations provided by the individual medical institution to which they are assigned.

COURSE OF STUDY IN PHYSICAL THERAPY

An outline of the program of studies for each year of the course is given below. This course of study meets the requirements of, and is approved by, the Council on Medical Education and Hospitals of the American Medical Association.

DEGREE COURSE

JUNIOR YEAR

<i>Winter Session</i>		<i>Points</i>
<i>Anatomy</i> 155	Human anatomy	3
<i>Physics</i> 111	Physics applied to physical medicine	2
<i>Physiology</i> 157	Aspects of human physiology	2
<i>Orientation</i> 39	Professional ethics and institutional organization	1
<i>Massage</i> 3	Essentials of massage	2
<i>Psychology</i> 33	Clinical psychology	2
<i>Neuroanatomy</i> 95	Anatomy of the nervous system	2
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2
		16
<i>Spring Session</i>		
<i>Thermotherapy</i> 10	Heat application and radiation	1
<i>Hydrotherapy</i> 18	Theory and practice, including neuropsychiatric techniques	1
<i>Orthopedics</i> 136	Survey of orthopedics	2
<i>Exercise</i> 112	Therapeutic exercise, including underwater techniques	5
<i>Clinical Experience</i> 2	Introduction to clinical experience	2
<i>Psychiatry</i> 102	Elementary psychiatry	2
<i>Neurology</i> 106	Clinical neurology	2
Elective in administration and techniques of recreation		2
June and July: Clinical observation, instruction, and supervised practice		17

SENIOR YEAR

<i>Winter Session</i>		<i>Points</i>
<i>Electrotherapy</i> 13	Theory and practice of electrotherapy	2
<i>Motor Disabilities</i> 121	Chronic motor disabilities and their treatment	2
<i>Nursing Procedures</i> 17	Simple bandaging, dressings, asepsis, and other techniques	1
<i>Clinical Experience</i> 3	Supervised clinical practice	2
<i>Psychiatry</i> 101	Psychosomatic aspects of physical medicine	1
<i>Pathology</i> 31	Elementary studies in pathology	1
<i>Clinical Subjects</i> 29	Survey of medical and surgical conditions in relation to physical medicine	2
<i>Orientation</i> 41	Case records and interprofessional relationships	1
<i>Electives</i>		3
		15

<i>Spring Session</i>		<i>Points</i>
<i>Orientation</i> 16	Seminar	2
<i>Physical Therapy</i> 116	Practical application of physical therapy	2
<i>Clinical Subjects</i> 30	Survey of medical and surgical conditions (continued)	2
<i>Rehabilitation</i> 150	Rehabilitation techniques and problems of the handicapped	2
<i>Speech</i> 162	Principles and practice of speech science	2
<i>Clinical Experience</i> 4	Supervised clinical practice (continued)	2
<i>Biology</i> 253 <i>b</i> (T.C.)	Anatomy and physiology	1
Electives		2
		—
June: Clinical instruction and supervised practice		15

ADVANCED STANDING COURSE

<i>Winter Session</i>		<i>Points</i>
<i>Anatomy</i> 155	Human anatomy	3
<i>Physics</i> 111	Physics applied to physical medicine	2
<i>Massage</i> 3	Essentials of massage	2
<i>Pathology</i> 31	Elementary studies in pathology	1
<i>Orientation</i> 39	Professional ethics and institutional organization	1
<i>Electrotherapy</i> 13	Theory and practice of electrotherapy	2
<i>Neuroanatomy</i> 95	Anatomy of the nervous system	2
<i>Physiology</i> 157	Aspects of human physiology	2
<i>Clinical Subjects</i> 29	Survey of medical and surgical conditions in relation to physical medicine	2
<i>Nursing Procedures</i> 17	Simple bandaging, dressings, asepsis, and other techniques	1
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2
		—
		20
<i>Spring Session</i>		
<i>Thermotherapy</i> 10	Heat application and radiation	1
<i>Hydrotherapy</i> 18	Theory and practice, including neuropsychiatric techniques	1
<i>Orthopedics</i> 136	Survey of orthopedics	2
<i>Exercise</i> 112	Therapeutic exercise including underwater techniques	5
<i>Psychiatry</i> 102	Elementary psychiatry	2
<i>Neurology</i> 106	Clinical neurology	2
<i>Clinical Subjects</i> 30	Survey of medical and surgical conditions (continued)	2
<i>Rehabilitation</i> 150	Rehabilitation techniques and problems of the handicapped	2
<i>Orientation</i> 16	Seminar	1
		—
		18

June, July, August, and September: Clinical instruction and supervised experience

HOSPITALS AFFILIATED FOR CLINICAL TRAINING

Attendance in the hospitals and clinics listed below is concurrent with regular classroom work in the Winter and Spring Sessions. In addition, all students are required to spend a period during the summer in full-time clinical practice. During this period students attend lectures, clinics, and staff meetings, receive supervised practical experience in physical therapy, and are introduced to related treatment departments.

BLYTHEDALE, Valhalla, N. Y.

Jacob Reingold, *Executive Director*
A. David Gurewitsch, M.D., *Medical Director*
Carroll Wardlaw, R.P.T., *Head Physical Therapist*

BRONX VETERANS HOSPITAL, New York, N. Y.

Arthur Abramson, M.D., *Chief, Physical Medicine and Rehabilitation Service*
Morris Vogel, R.P.T., *Chief of Physical Therapy*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N. Y.

John S. Parke, *Executive Vice President*
William Benham Snow, M.D., *Director, Clinical Physical Medicine*

Presbyterian Hospital
Edith Hansen, R.N., R.P.T., *Head Physical Therapist*

Neurological Institute
Mary A. Cover, R.P.T., *Head Physical Therapist*

New York Orthopaedic Hospital
Agatha Hanley, R.P.T., *Head Physical Therapist*

GRACE-NEW HAVEN COMMUNITY HOSPITAL, New Haven, Connecticut

Thomas F. Hines, M.D., *Director of Physical Medicine and Rehabilitation*
Edith Nyman, R.P.T., *Head Physical Therapist*

HARTFORD HOSPITAL, Hartford, Connecticut

John C. Allen, M.D., *Physiatrist*
Robert Scherf, R.P.T., *Chief Physical Therapist*

HOSPITAL FOR CHRONIC ILLNESS, Rocky Hill, Connecticut

A. N. Creadick, M.D., *Medical Director*
Nila Kirkpatrick Covalt, M.D., *Chief of Physical Medicine and Rehabilitation*
Annette Wolter, R.P.T., *Supervisor of Physical Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N.Y.

Willis C. Gorthy, *Director*
Edward E. Gordon, M.D., *Director of Medical Services*
Blanche Talmud, R.P.T., *Supervising Therapist*

INSTITUTE OF PHYSICAL MEDICINE AND REHABILITATION, New York University-Bellevue Medical Center, New York, N. Y.

Howard Rusk, M.D., *Director*

Donald A. Covalt, M.D., *Clinical Director*

Jack M. Hofkosh, R.P.T., *Supervisor, Physical Therapy Department*

JEWISH SANITARIUM AND HOSPITAL FOR CHRONIC DISEASES, Brooklyn, N. Y.

Benjamin Koven, M.D., *Medical Director, Physical Medicine and Rehabilitation*

M. Murray Chrystal, R.P.T., *Administrative Director of Physical Medicine and Rehabilitation*

KESSLER INSTITUTE FOR REHABILITATION, West Orange, N. J.

William K. Page, Jr., *Administrator*

Henry H. Kessler, M.D., *Medical Director*

Ruth Dickinson, R.P.T., *Director of Physical Therapy*

MARINE HOSPITAL, UNITED STATES PUBLIC HEALTH SERVICE, New York, N. Y.

Samuel M. Paley, M.D., *Director, Physical Medicine*

Esther Anderson, R.P.T., *Chief Physical Therapist*

MORRIS MEMORIAL HOSPITAL, Milton, W. Va.

Sarah Pritchett, R.N., *Superintendent*

Mrs. Georgia Traub, R.P.T., *Chief Physical Therapist*

NEW YORK HOSPITAL, New York, N. Y.

Christian Hansson, M.D., *Director of Physical Medicine*

Margaret Valentine Rennison, R.P.T., *Head Physical Therapist*

NEW YORK REGIONAL OFFICE, VETERANS ADMINISTRATION, RAY CLINICS, New York, N. Y.

Irving Tepperberg, M.D., *Chief, Physical Medicine Rehabilitation Service*

Elmer Marjay, M.D., *Chief, Physical Medicine Group*

G. DiNubila, *Chief Physical Therapist*

NEW YORK STATE REHABILITATION HOSPITAL, West Haverstraw, N. Y.

Austin J. Canning, M.D., *Director*

Morton Hoberman, M.D., *Principal Physician, Physical Medicine and Rehabilitation*

Margaret A. O'Neill, R.P.T., Ph.D., *Director, Department of Physical Therapy*

Erbert Cicenía, R.P.T., *Director of Rehabilitation Section*

ST. BARNABAS HOSPITAL FOR CHRONIC DISEASES, Bronx, N. Y.

A. P. Merrill, M.D., M.H.A., *Superintendent*

Robert A. Muller, M.D., *Director, Department of Physical Medicine and Rehabilitation*

Manfred E. Lange, R.P.T., *Chief Physical Therapist*

ST. GILES CONVALESCENT HOME AND SCHOOL, Garden City, L. I.

Norman D. Bailey, *General Manager*

Pearl B. Shulver, R.P.T., *Coordinator of Therapies*

VETERANS ADMINISTRATION HOSPITAL, Montrose, N. Y.

Richard L. Harris, M.D., *Manager*

Jack Meislin, M.D., *Chief, Physical Medicine and Rehabilitation Service*

Henry Stano, *Chief, Physical Therapy*

OUTLINE OF COURSES

For electives and additional courses open to students in physical therapy, consult the Announcements of Teachers College and the School of General Studies.

The University reserves the right to withdraw or modify these courses or to change the instructors as may be necessary.

DEGREE COURSE

JUNIOR YEAR

Winter Session

***Anatomy 155—Human anatomy. 3 pts. Professors Elftman and Noback.**

Anatomy of the human body with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter being based on prepared dissection of the human body.

***Physics 111—Physics applied to physical medicine. 2 pts. Dr. Lota.**

Basic kinetics, radiation, hydro-dynamics, and electricity as they apply to the practice of physical therapy.

***Physiology 157—Aspects of human physiology. 2 pts. Professor Wang.**

This course includes the physiology of the nervous system, of circulation, and of respiration. Emphasis is placed on the physiology of exercise to meet the needs of the occupational therapy and physical therapy student. Lectures and laboratory demonstrations.

***Orientation 39—Professional ethics and institutional organization. 1 pt. Professor Snow.**

Lecturers governing appropriate conduct of medical assistants in the routine of their work. Orientation of medical workers toward institutional contacts.

***Massage 3—Essentials of massage. 2 pts. Professors Callahan and Gurewitsch and Miss Jameson.**

The theory and technique of massage with laboratory demonstrations and practice.

Psychology 33—Clinical psychology. 2 pts. Dr. Burgemeister.

Lectures in this course describe the common mental maladjustments, undertaking to explain them in terms of general psychological principles. The social implications of abnormalities are emphasized.

Prerequisite: General psychology.

***Neuroanatomy 95—Anatomy of the nervous system. 2 pts. Professor Sciarra.**

Anatomy of the nervous system of man, including the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain, spinal cord, and peripheral nerves with particular emphasis on the controls affecting voluntary motion.

***Kinesiology 105—Applied anatomy and kinesiology. 2 pts. Dr. Austlid and Miss Jameson.**

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement. Analysis of skills used in daily activities and in physical and occupational therapy. Lecture and laboratory.

Spring Session

***Thermotherapy 10—Heat application and radiation. 1 pt. Professor Gordon.**

A study of spectral radiation and the theory and technique of application of radiation of various types.

* Also an Advanced Standing course.

***Hydrotherapy 18—Theory and practice, including neuropsychiatric techniques.** Lecture and laboratory. 1 pt. Mrs. Finnerty.

The course concerns physiological effects, technique, and application of water as a therapeutic agent.

***Orthopedics 136—Orthopedics.** 2 pts. Dr. Craig.

Lectures and clinical presentations descriptive of orthopedic conditions, including discussion of related problems—social, medical, surgical, and rehabilitation.

***Exercise 112—Therapeutic exercise, including underwater techniques.** 2 or 5 pts. Professors Darling, Hoberman, and Snow, Mrs. Weber, Miss Harris, and associates.

This course covers the basic principles of therapeutic exercise and includes physiology of exercise, muscle evaluation and reeducation, tests and measurements, techniques of relaxation, and underwater exercises. Lecture and laboratory.

***Psychiatry 102—Elementary psychiatry.** 2 pts. Professor Carter and Drs. Amols and Lesse.

Etiology and symptomatology of the major and minor psychoses, including the psychoneuroses and their treatment. Lectures with clinical demonstrations and field trips.

***Neurology 106—Clinical neurology.** 2 pts. Dr. Greene.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

Clinical Experience 2—Introduction to clinical experience. 2 pts.

Orientation to institutions, physical therapy departments, patients, keeping records, and in giving massage and exercise.

SENIOR YEAR

Winter Session

***Electrotherapy 13—Theory and practice of electrotherapy.** 2 pts. Professor Snow; and special lecturers.

Theory and principles of technique of the diagnostic and therapeutic uses of high frequency, galvanic, and other low frequency currents. Lectures and laboratory.

Motor Disabilities 121—Chronic motor disabilities and their treatment. 2 pts. Professors Hoberman and Snow, Dr. Greene, and special lecturers.

A consideration of motor disabilities due to developmental abnormalities, disease, or injury to the central nervous system. Techniques in the management of these patients with particular stress on the use of physical and occupational therapy in their rehabilitation.

***Nursing Procedures 17—Bandaging and dressings.** Lectures and laboratory. 1 pt. Mrs. Finnerty.

The techniques of bandaging, asepsis, handling of dressings, and bedside conduct.

Clinical Experience 3—Supervised clinical practice. 2 pts.

Consists of lectures, observation, demonstrations, and supervised practice in physical therapy.

Psychiatry 101—Psychosomatic aspects of physical medicine. 1 pt. Dr. Stewart.

The effect of personality factors on sick individuals and a consideration of the problems that occur due to alteration of their psyches as a result of stress of illness.

***Pathology 31—Elementary studies in pathology.** 1 pt. Dr. Crowley.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alterations of functions resulting from these influences.

* Also an Advanced Standing course.

***Clinical Subjects 29**—Survey of medical and surgical conditions in relation to physical medicine. Lectures and demonstrations. 2 pts. Professor Snow and associates.

This course gives the student a closer acquaintance with disease as it occurs in the practice of physical medicine. Specialists discuss the problems in their fields of practice, including particular pathology, and the needs of physical medicine. This analysis is followed by prescription physical therapy to cover these special indications. There will be further clinical practice in hospitals.

Orientation 41—Case records and interprofessional relationships. 1 pt. Mrs. Carrick.

Orientation in case-work methods. Special emphasis is placed on techniques and practice in reading the total record of the patient, in writing intelligent observational reports, and in understanding the methods of other professional hospital personnel.

Spring Session

***Clinical Subjects 30**—Survey of medical and surgical conditions in relation to physical medicine. Lectures and demonstrations. 2 pts. Professor Snow and associates.

Continuation of Clinical Subjects 29

Rehabilitation 150—Rehabilitation techniques and problems of the handicapped. Lectures and demonstrations. 2 pts. Miss Talmud.

Theory, practice, and evaluation of functional activities; types, application, and care of supportive apparatus.

***Orientation 16**—Seminar. 1 or 2 pts. Professor Callahan and Misses Kilburn and Jameson.

Lecture and discussion of topics of importance to the therapist in practice. General survey of occupational therapy. Theoretical principles as applied to major disability areas with particular emphasis of occupational therapy skills in the treatment of physical disabilities.

Biology 253b (T.C.)—Anatomy and physiology. 1 pt. Miss Leavell.

A functional and anatomical study of the bone-muscle-joint units, including nerve and blood supply.

Prerequisite: *Biology 153* or equivalent. Laboratory fee \$1.

Speech 162—Principles and practice of speech science. 2 pts. Dr. Cass.

This course covers the basic anatomy and physiology underlying speech science. Consideration will be given to the pathology of speech abnormalities and the therapeutic approach for their correction.

Clinical Experience 4—Supervised clinical experience. 2 pts.

Continuation of *Clinical Experience 3*.

Physical Therapy 116—Practical application of physical therapy. 2 pts. Professor Snow and associates.

Integration and application of the fundamental principles and skills already learned to specific conditions.

ADVANCED STANDING COURSE

All courses marked with an asterisk in the degree program, Junior and Senior Years, must be taken.

* Also an Advanced Standing course.

OCCUPATIONAL THERAPY

ADMINISTRATIVE OFFICERS

- GRAYSON KIRK, Ph.D., LL.D. *President of the University*
- JOHN A. KROUT, Ph.D., L.H.D., LL.D. . . . *Vice President and Provost of the University*
- WILLARD COLE RAPPLEYE, A.M., M.D., Sc.D., Med.Sc.D. . . *Vice President in Charge of Medical Affairs; Dean, Faculty of Medicine*
- ROBERT C. DARLING, M.D. . . *Professor of Physical Medicine and Rehabilitation; Executive Officer, Department of Physical Medicine and Rehabilitation*
- WILLIAM BENHAM SNOW, M.D. . . . *Professor of Physical Medicine; Medical Director, Courses in Physical and Occupational Therapy*
- MARIE LOUISE FRANCISCUS, B.S. *Assistant Professor and Director, Training for Occupational Therapists*
- VIRGINIA T. KILBURN, A.B. *Instructor and Associate Director, Training for Occupational Therapists*

OFFICERS OF INSTRUCTION

- MARGUERITE ABBOTT, O.T.R., *Instructor in Occupational Therapy; B.S., Tufts; Graduate, Boston School of Occupational Therapy*
- WILLIAM AMOLS, *Instructor in Neurology; A.B., M.D., New York University*
- MICHAEL ANTELL, *Assistant Professor of Public Health Practice; M.D., Long Island College; M.P.H., Harvard*
- JACK ARENDS, *Assistant Professor of Fine Arts, Teachers College; A.B., Iowa State Teachers College; A.M., Ed.D., Columbia*
- NANCY D. BERRYMAN, O.T.R., *Assistant in Occupational Therapy; B.S., Wisconsin; Certificate in Occupational Therapy, Wisconsin*
- EDITH H. BROKAW, O.T.R., *Associate in Occupational Therapy; Graduate, Philadelphia School of Occupational Therapy*
- BESSIE B. BURGEMEISTER, *Research Assistant in Neurology; A.B., A.M., Ph.D., Columbia*
- MARY E. CALLAHAN, R.N., R.P.T., *Assistant Professor; Director, Training for Physical Therapists; B.S., New York University; Clinton Hospital School of Nursing; Certificate in Physical Therapy, Posse Institute*
- SIDNEY CARTER, *Assistant Professor of Neurology; A.B., Dartmouth; M.D., Boston University*
- GRAHAM CLARK, *Instructor in Ophthalmology; B.S., M.D., Virginia*
- FREDERICK S. CRAIG, *Instructor in Orthopedic Surgery; M.D., Buffalo*
- LEONARD V. CROWLEY, *Instructor in Pathology; M.D., Vermont*
- ROBERT C. DARLING, *Professor of Physical Medicine and Rehabilitation; A.B., M.D., Harvard*
- NICHOLAS A. DI SALVO, *Assistant Professor of Physiology; B.S., College of the City of New York; D.D.S., Ph.D., Columbia*
- HERBERT O. ELFTMAN, *Associate Professor of Anatomy; A.B., A.M., California; Ph.D., Columbia*
- GERTRUDE B. FINNERTY, R.P.T., *Associate in Physical Therapy; A.B., Hunter; Certificate in Physical Therapy, Stanford*
- MARIE LOUISE FRANCISCUS, O.T.R., *Assistant Professor; B.S., Ohio State; Graduate, Philadelphia School of Occupational Therapy*
- EDWARD J. FREY, *Lecturer in Graphic Arts, School of General Studies*
- EDWARD E. GORDON, *Associate Professor of Rehabilitation Medicine; A.B., Harvard; M.D., Tufts*
- JUSTIN L. GREENE, *Instructor in Neurology; A.B., Columbia; M.D., Paris*
- MORTON HOBERMAN, *Assistant Clinical Professor of Physical Medicine and Rehabilitation; B.S., New York University; M.B., M.D., Wayne*
- GLADYS L. JAMESON, R.P.T., *Instructor in Physical Therapy; Associate Director, Training for Physical Therapists; A.B., Syracuse; A.M., New York University; Certificate in Physical Therapy, Columbia*
- VIRGINIA T. KILBURN, O.T.R., *Instructor in Occupational Therapy; A.B., Wellesley; Certificate in Occupational Therapy, Columbia*
- JOHN S. LEARY, *Instructor in Fine and Industrial Arts, Teachers College; B.F.A., A.M., Ohio State*
- STANLEY LESSE, *Assistant in Neurology; A.B., Pennsylvania; M.D., Jefferson*

- PAUL LINDENBERG, *Instructor in Otolaryngology*; M.D., Vienna
- YASHA LISENCO, *Instructor in Fine and Industrial Arts, Teachers College*; B.S., College of the City of New York; A.M., Columbia
- MELVIN LOOS, *Lecturer in Graphic Arts, School of General Studies*; Manager, Printing Office, Columbia University Press
- WILLIAM J. MAHONEY, *Instructor in Fine and Industrial Arts, Teachers College*; B.S., A.M., Columbia
- CHARLES R. NOBACK, *Associate Professor of Anatomy*; B.S., Cornell; M.S., New York University; Ph.D., Minnesota
- ISABEL ROBINAULT, O.T.R., *Instructor in Occupational Therapy*; A.B., Barnard; A.M., Certificate in Occupational Therapy, New York University
- DANIEL SCIARRA, *Assistant Professor of Neurology*; A.B., M.D., Harvard
- WILLIAM BENHAM SNOW, *Professor of Physical Medicine*; M.D., Long Island College of Medicine
- HELEN SPENCER, R.P.T., *Instructor in Physical Therapy*; A.B., Wellesley; Certificate in Physical Therapy, Hospital for Special Surgery
- ORPHA M. THOMAS, *Lecturer in Home Economics, Teachers College*; A.B., MacMurray College for Women; B.S., Goshen; B.S., M.S., Michigan State; M.S., Columbia; Ph.D., Purdue
- SONYA E. WEBER, Ph.T., *Instructor in Physical Medicine and Rehabilitation*; A.B., Vienna; Sc.D., Eastern Reserve
- THELMA L. WELLERSON, O.T.R., *Instructor in Occupational Therapy*; B.S. in Occupational Therapy, A.M., Columbia
- HELEN P. WHITE, O.T.R., *Instructor in Occupational Therapy*; A.B., Michigan; A.M., New York University; Graduate, Philadelphia School of Occupational Therapy
- PAUL E. WILSON, *Instructor in Pediatrics*; A.B., Cornell; Sc.D., M.D., Johns Hopkins
- JOHN A. WOOD, *Assistant in Medicine*; A.B., M.D., Harvard

SPECIAL LECTURERS

- NORMA A. ALESSANDRINI, O.T.R., Director, Children's Recreation Service, Bellevue Hospital; B.S., Cornell; Certificate in Occupational Therapy, Columbia
- OLAV AUSTLID, Assistant Director, Physical Medicine, Hospital for Special Surgery; M.D., Vienna
- LUCILLE H. BLUM, Staff, Therapeutic Services, Postgraduate Center for Psychotherapy, Inc.; B.S., A.M., Ph.D., Columbia
- CECILE L. CROTTY, Recreation Instructor, New York State Psychiatric Institute and Hospital; Diploma, Posse-Nissen College of Physical Education
- ARTHUR EISENBERG, Rehabilitation Executive, Montefiore Hospital, Westchester Division; A.B., College of the City of New York; A.M., New York University
- MARJORIE FISH, O.T.R., Executive Director, American Occupational Therapy Association; A.B., Swarthmore; A.M., Columbia; Graduate, Boston School of Occupational Therapy
- CLAIRE S. GLASSER, O.T.R., Director of Occupational Therapy, Main Hospital of New York Hospital; B.S. in Occupational Therapy, Columbia
- FRANCES HEES, O.T.R., Director of Occupational Therapy, Goldwater Memorial Hospital; Graduate, Philadelphia School of Occupational Therapy
- MARGARETTE N. HELMLE, Director, Rehabilitation Service, Brooklyn Tuberculosis and Health Association
- FLORENCE E. HOUSE, Instructor in Weaving; B.S., A.M., Columbia
- SHULAMITH KASTEIN, Speech Pathologist, Department of Otolaryngology, Columbia-Presbyterian Medical Center; Diploma, Vienna
- ELEANOR C. KILLE, O.T.R., Occupational Therapy Supervisor, Southbury Training School; Graduate, Philadelphia School of Occupational Therapy
- HELEN C. MATHIAS, O.T.R., Director, Occupational Therapy, Bellevue Hospital; A.B., Montclair Teachers College; Graduate, Philadelphia School of Occupational Therapy
- AGNES D. NESS, O.T.R., Teacher, Vocational Department, Lexington School for the Deaf; B.S., Certificate in Occupational Therapy, New York University
- SAMUEL POWERS, JR., Resident in Surgery, Presbyterian Hospital; A.B., Swarthmore; M.D., Columbia
- CHARLES RITTER, Consultant, Special Aids and Appliances, American Foundation for the Blind
- MORTON A. SEIDENFELD, Director, Division of Psychological Services and Public Education, National Foundation for Infantile Paralysis; B.S., Washington; M.S., Ph.D., Pennsylvania
- MILDRED A. SPARGO, O.T.R., Director, Occupational Therapy, Payne Whitney Psychiatric Clinic of New York Hospital; Graduate, Boston School of Occupational Therapy
- ALICE R. TREI, O.T.R., Senior Occupational Therapist, New York State Psychiatric Institute and Hospital; Certificate in Occupational Therapy, Columbia; B.S., New York University
- MARION C. TRIPP, Associated with Winthrop M. Phelps, M.D.; A.B., Nebraska; A.M., Ed.D., Columbia
- MICHI YASUMURA, O.T.R., Director, Occupational Therapy, Children's Clinic of New York Hospital; A.B., Washington; A.M., Certificate in Occupational Therapy, New York University

OCCUPATIONAL THERAPY

Occupational therapy is the administration of medically prescribed treatment in the form of supervised activity for persons injured in body or mind by accident or disease. Creative and manual arts, recreational activities, educational pursuits, prevocational exploration and the activities of daily living are used in modern occupational therapy programs to improve physical function and to promote mental, social, and economic adjustment of the patient.

Occupational therapy has grown and expanded rapidly as an aid to recovery and a guide to vocational rehabilitation of both civilians and service personnel due to impetus from the two World Wars. Occupational therapy is filling an increasingly important role in the postwar programs.

Both men and women are admitted to the professional courses, depending upon individual qualifications.

Two courses of study are offered: one of twenty-five months' duration leading to the Bachelor of Science degree, and one of seventeen months' duration leading to a Certificate. See Admission Requirements below.

The curriculum consists of classroom work devoted to courses in the biological, social, and clinical sciences providing a scientific, medical, and theoretical background. At the same time instruction is given in the techniques of creative and manual arts, activities of daily living, recreational, educational, and prevocational activities as they enter into the actual practice of occupational therapy. Correlated with theoretical classroom instruction, students observe treatment procedures in the Occupational Therapy units of several hospitals and institutions of the metropolitan area. A program of student clerkships in conjunction with the same institutions permits students to study treatment problems of specific diagnostic classifications as they are introduced in the medical lecture series, by means of the case study and laboratory method. In addition, there is a nine-month period of clinical practice in teaching hospitals under the supervision of the University.

The courses described in this Announcement meet the requirements set forth by the American Occupational Therapy Association and by the Council on Medical Education and Hospitals of the American Medical Association, as published in their *Essentials of an Acceptable School of Occupational Therapy*, which regulates the standards by which schools are accredited. Graduates of both the Degree course and the Certificate course are eligible for the examination leading to admission to the Registry of Occupational Therapists maintained by the American Occupational Therapy Association. This examination is held throughout the country in February and June of each year. Admission to the Registry is the certification of a therapist to practice.

ADMISSION REQUIREMENTS

Students will be admitted in September only. Applicants for admission must be between the ages of nineteen and thirty-five years. Demands made on the physical endurance and emotional stamina of the therapist require a record of good health. Applicants must be graduates of an approved high school or the equivalent, and must satisfy one of the following requirements:

- A. *Candidates for the Degree.* Students who have satisfactorily completed at least two years of work in a college approved by Columbia University may register for the degree course, to be completed in approximately two years—sixteen months

of theoretical training and nine months of clinical practice. Specific admission requirements include:

1. Sixty (60) semester credits in liberal arts.
2. The above should include the following minima:
 - a. Six (6) semester credits in a biological or physical science.
 - b. Three (3) semester credits in psychology.
 - c. Three (3) semester credits in sociology.
3. A grade of "C" or better is required to receive transfer credit.

NOTE:—Suggested Preprofessional Curriculum is offered on page 27.

B. *Candidates for the Certificate.* Students who hold a baccalaureate degree acceptable to Columbia University may register in the advanced standing course, to be completed in approximately seventeen months—eight months of theoretical training and nine months of clinical practice. Specific admission requirements include:

1. A Bachelor's degree. (See note below).
2. Courses completed for the above degree should include the following minima:
 - a. Six (6) semester credits in a biological or physical science.
 - b. Three (3) semester credits in psychology.
 - c. Three (3) semester credits in sociology.

NOTE:—Graduates with accredited professional training in fields closely related to occupational therapy (i.e., nursing) may be admitted to the advanced standing program.

ADMISSION PROCEDURE

Forms to be used in making application for admission may be obtained by writing to the Occupational Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. Applications should be filed several months in advance of the time at which students wish to begin their studies. Transcripts of all post-secondary school education should be forwarded by the registrars of the respective schools directly to the Director of Occupational Therapy. A personal interview will be arranged for each applicant.

ESTIMATED EXPENSES

Following is an itemized estimate of expenses of attendance in the courses in occupational therapy.

<i>University Expenses (total course)</i>	<i>Degree Course</i>	<i>Advanced Standing Course</i>
Tuition	\$1,500	\$750
University fees	80	40
Clinical supervisory fee	20	10
Books, materials, equipment, uniforms	240	160
Health and hospital fee	50	25
Degree or Certificate application	20	10
<i>Total</i>	\$1,910	\$995

Living Expenses (academic year)

Room	\$320-\$455
Board	500
Subway and bus fares (within program)	65
<i>Total</i>	\$885-\$1,020

Fees for materials and equipment in studio classes are payable at the time of registration and are subject to change in accord with market prices.

During clinical practice students spend approximately four months of the period in residence in hospitals where they receive full maintenance (room, board, and laundry). In some instances a maintenance arrangement is possible for a longer period of time.

There will be nominal transportation expenses for students in hospital affiliations outside the local area.

SUGGESTED PREPROFESSIONAL CURRICULUM

The following suggestions may be helpful to the student or guidance counsellor in planning the two-year college program prior to admission to the professional course leading to the Bachelor of Science Degree:

Six semester credits in each of the following fields: English composition, English literature, biology or zoology, chemistry or physics, psychology, and sociology.

The remaining 24 credits might be chosen from such fields as speech, language, social and political sciences, economics.

Transfer credit is not usually offered for required courses in physical education nor for any courses leading to a specific profession.

COURSE OF STUDY IN OCCUPATIONAL THERAPY

An outline of the program of studies for each year of the course is given below. In the Degree course, two years are spent on the campus in theoretical and technical study. To integrate the theoretical information, the student spends nine to twelve months of full-time clinical practice in mental, general, children's, orthopedic, and tuberculosis services or hospitals. The summer periods are utilized for required clinical practice, thereby enabling the student to complete the full course in approximately two years.

Advanced Standing students completing the course in seventeen months carry a program combining first-year and second-year courses during the one year spent on the campus, followed by nine to twelve months devoted to clinical practice.

DEGREE COURSE

JUNIOR YEAR

Winter Session

Points

<i>O.T. Theory 11</i>	Orientation to occupational therapy	2
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Psychology 33</i>	Clinical psychology	2
<i>Physiology 55</i>	Human physiology	2
<i>Neuroanatomy 95</i>	Anatomy of the nervous system	2
<i>Anatomy 155</i>	Human anatomy	3
<i>O.T. Fine Arts 11</i>	Needlecrafts	2
<i>O.T. Fine Arts 163</i>	Elementary woodwork	2
<i>O.T. Fine Arts 101</i>	Fundamentals of art and design	2

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Spring Session

<i>O.T. Theory 12</i>	Application in major medical fields	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Neurology 106</i>	Clinical neurology	2
<i>O.T. Fine Arts 14</i>	General crafts	3
<i>O.T. Fine Arts 26</i>	Pottery	2
<i>O.T. Fine Arts 30</i>	Elementary weaving	3
<i>O.T. Clerkship 2</i>	Case evaluations of psychiatric patients	2
Elective in administration and techniques of recreation		2

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June, July, and August: Clinical practice in psychiatry

SENIOR YEAR

*Winter Session**Points*

<i>O.T. Theory</i> 21	Departmental organization and administration	2
<i>Psychology</i> 45	Child development	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2
<i>Motor Disabilities</i> 121	Chronic motor disabilities and their treatment	2
<i>O.T. Fine Arts</i> 105	Interpretive design	2
<i>O.T. Fine Arts</i> 165	Advanced woodwork	2
<i>O.T. Clerkship</i> 3	Case evaluations of medical and surgical patients	2
Elective		2

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Spring Session

<i>O.T. Theory</i> 24	Application to orthopedic and neurological disabilities	2
<i>Clinical Subjects</i> 102	Orthopedics, pediatrics, visual disabilities	2
<i>Exercise</i> 112	Therapeutic exercise	2
<i>Rehabilitation</i> 118	Agencies and techniques of rehabilitation	2
<i>O.T. Graphic Arts</i> 11R	Art of hand printing	2
<i>O.T. Fine Arts</i> 18	Leatherwork	2
<i>O.T. Fine Arts</i> 32	Advanced weaving	2
<i>O.T. Fine Arts</i> 168	Metalwork and jewelry	2
<i>O.T. Clerkship</i> 4	Case evaluations in physical and vocational rehabilitation	2

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July-January: Six months of clinical practice in specified areas of service

ADVANCED STANDING COURSE

*Winter Session**Points*

<i>O.T. Theory</i> 11	Orientation to occupational therapy	2
<i>Physiology</i> 55	Basic human physiology	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2
<i>Anatomy</i> 155	Human anatomy	3
<i>O.T. Fine Arts</i> 15	General crafts and needlecrafts	3
<i>O.T. Fine Arts</i> 17	Leatherwork	1
<i>O.T. Fine Arts</i> 27	Pottery	2
<i>O.T. Fine Arts</i> 35	Weaving	2

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<i>Spring Session</i>		<i>Points</i>
<i>O.T. Theory 12</i>	Application in major medical fields	2
<i>O.T. Theory 24</i>	Application to orthopedic and neurological disabilities	2
<i>Clinical Subjects 102</i>	Orthopedics, pediatrics, visual disabilities	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Neurology 106</i>	Clinical neurology	2
<i>Rehabilitation 118</i>	Agencies and techniques of rehabilitation	2
<i>O.T. Graphic Arts 1R</i>	Art of hand printing	1
<i>O.T. Fine Arts 166</i>	Woodwork	2
<i>O.T. Fine Arts 106</i>	Interpretive design	2
<i>O.T. Fine Arts 168</i>	Metalwork and jewelry	2
		19

July-April: Nine months of clinical practice in specified areas of service

Additional requirements for all Advanced Standing students:

1. Attendance at a weekly seminar during the Winter and Spring Sessions. Discussions in this seminar are concerned with advanced theory, principles, and practice of occupational therapy.
2. A paper to be written during the clinical practice period in an area of particular interest to the student and related to her clinical experiences. This paper is to be submitted two months prior to the completion of clinical practice.

HOSPITALS AND AGENCIES AFFILIATED FOR CLINICAL PRACTICE

The nine to twelve months of clinical practice consist of full-time practical experience in well-organized and carefully supervised Occupational Therapy Departments under the immediate direction of registered occupational therapists. Clinical practice shall be completed within one year following termination of academic work. During this period students attend lectures, clinics, staff meetings, and orientation in related treatment departments, conduct special case studies, and obtain practical experience in special therapeutics, such as recreational, educational, and prevocational activities.

BRATTLEBORO RETREAT, Brattleboro, Vermont

J. Butler Tompkins, M.D., *Superintendent*

Mrs. Hope S. Chapman, O.T.R., *Director of Occupational Therapy*

CHILDREN'S HOSPITAL, Buffalo, N. Y.

Moir P. Tanner, *Director*

Miss Jane E. Fogelsonger, O.T.R., *Director of Occupational Therapy*

CHILDREN'S REHABILITATION INSTITUTE, Cockeysville, Maryland

Winthrop M. Phelps, M.D., *Medical Director*

Miss Ruth Brunyate, O.T.R., *Director of Occupational Therapy*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N.Y.

John S. Parke, *Executive Vice President*

William Benham Snow, M.D., *Director, Clinical Physical Medicine*

Mrs. Helen P. White, O.T.R., *Chief Occupational Therapist*

COMMUNITY WORKSHOPS OF RHODE ISLAND, INC., Providence, R.I.

Mrs. Iris W. Booth, *Executive Director*

Mrs. Eleanor M. Black, O.T.R., *Chief Occupational Therapist*

CONNECTICUT STATE HOSPITAL, Middletown, Connecticut

Edgar C. Yerbury, M.D., *Superintendent*

Mrs. Alice M. Rogers, O.T.R., *Supervisor of Occupational Therapy*

CRESSON STATE SANATORIUM, Cresson, Pennsylvania

Harry W. Weest, M.D., *Medical Director*

Miss Grace M. Cassidy, R.N., O.T.R., *Chief Occupational Therapist*

CURATIVE WORKSHOP, PHILADELPHIA SCHOOL OF OCCUPATIONAL THERAPY, Philadelphia, Pennsylvania

Miss Clare S. Spackman, O.T.R., *Director*

GALLINGER MUNICIPAL HOSPITAL, Washington, D.C.

Crippled Children's Clinic

Philip A. E. Stebbing, M.D., *Superintendent*

Mrs. Helen N. Cromartie, O.T.R., *Director of Occupational Therapy*

GERMANTOWN DISPENSARY AND HOSPITAL, Philadelphia, Pennsylvania

W. T. Sherman Thorndike, M.D., *Managing Director*

Miss Alice Letchworth, O.T.R., *Director of Occupational Therapy*

GRADUATE HOSPITAL OF THE UNIVERSITY OF PENNSYLVANIA, Philadelphia, Pennsylvania

Edwin Taylor, Director

Miss Clare S. Spackman, O.T.R., *Director of Occupational Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N.Y.

Willis C. Gorthy, *Director*Edward E. Gordon, M.D., *Director of Medical Services*Miss Thelma L. Wellerson, O.T.R., *Director of Occupational Therapy*

JEWISH SANITARIUM AND HOSPITAL FOR CHRONIC DISEASES, Brooklyn, N.Y.

Arthur Feigenbaum, *Superintendent*Mrs. Frances L. Shuff, O.T.R., *Director of Occupational Therapy*

KESSLER INSTITUTE FOR REHABILITATION, West Orange, N.J.

William K. Page, Jr., *Administrator*Henry H. Kessler, M.D., *Medical Director*Miss Florence M. Stattel, O.T.R., *Chief Occupational Therapist*

MONTEFIORE HOSPITAL—WESTCHESTER DIVISION, Bedford Hills, N.Y.

Irving Gottsegen, *Assistant Director*Mrs. Dorothy Sebesta, O.T.R., *Occupational Therapy Executive*

NEW YORK CITY DEPARTMENT OF HOSPITALS

Bruce B. Grynbaum, M.D., *Director of Rehabilitation and Physical Medicine*

Bellevue Hospital

Miss Helen C. Mathias, O.T.R., *Supervisor of Occupational Therapy*

Goldwater Memorial Hospital

Miss Frances E. Heess, O.T.R., *Supervisor of Occupational Therapy*

NEW YORK HOSPITAL, New York, N.Y.

Children's Clinic

S. Z. Levine, M.D., *Pediatrician in Chief*Miss Michi Yasumura, O.T.R., *Acting Director of Pediatric Occupational Therapy*

Main Hospital

Henry N. Pratt, M.D., *Director*Mrs. Claire Glasser, O.T.R., *Director of Occupational Therapy*

Payne Whitney Psychiatric Clinic

Oskar Diethelm, M.D., *Psychiatrist in Chief*Miss Mildred Spargo, O.T.R., *Director of Occupational Therapy*

NEW YORK STATE DEPARTMENT OF HEALTH, DIVISION OF TUBERCULOSIS CONTROL

Robert E. Plunkett, M.D., *Assistant Commissioner*Miss M. Arlene Mellinger, O.T.R., *Supervisor of Occupational Therapy*

Hermann M. Biggs Memorial Hospital, Ithaca, N.Y.

N. Stanley Lincoln, M.D., *Director*Miss Unabelle Emm, O.T.R., *Director of Occupational Therapy*

J. N. Adam Memorial Hospital, Perrysburg, N.Y.

Richard Nauen, M.D., *Director*

Miss Janet McLaughlin, O.T.R., *Director of Occupational Therapy*

Mount Morris Tuberculosis Hospital, Mount Morris, N.Y.

F. L. Armstrong, M.D., *Director*

Miss Lucie Wachter, O.T.R., *Director of Occupational Therapy*

NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE

Miss Virginia M. Scullin, O.T.R., *Director of Occupational Therapy*

Pilgrim State Hospital, Brentwood, L.I.

Harry J. Worthing, M.D., *Director*

Miss Helen Hedges, O.T.R., *Supervisor of Occupational Therapy*

New York State Psychiatric Institute and Hospital, New York, N.Y.

Irville H. MacKinnon, M.D., *Acting Director*

Mrs. Alice Trei, O.T.R., *Senior Occupational Therapist*

NEW YORK STATE REHABILITATION HOSPITAL, West Haverstraw, N.Y.

Austin J. Canning, M.D., *Director*

Miss Viola W. Svensson, O.T.R., *Director of Occupational Therapy*

NIAGARA SANATORIUM, Lockport, N.Y.

Arthur N. Aitken, M.D., *Director*

Mrs. Charlotte Briggs, R.N., O.T.R., *Director of Occupational Therapy*

NORWICH STATE HOSPITAL, Norwich, Connecticut

Ronald H. Kettle, M.D., *Superintendent*

Mr. Harry Kromer, R.N., O.T.R., *Supervisor of Occupational Therapy*

REHABILITATION CENTER, LIBERTY MUTUAL INSURANCE Co., Boston, Massachusetts

Alexander P. Aitken, M.D., *Medical Director*

Miss F. Elizabeth Shepard, O.T.R., *Director of Occupational Therapy*

U. S. ARMY HOSPITALS

Office of the Surgeon General, Washington, D.C.

Nell Wickliffe, Col., W.M.S.C.; *Chief, Women's Medical Specialist Corps*

Helen R. Sheehan, Lt. Col., W.M.S.C.; *Chief Occupational Therapist, Women's Medical Specialist Corps*

U. S. PUBLIC HEALTH SERVICE HOSPITAL, Boston, Massachusetts

Samuel J. Hall, M.D., *Medical Officer in Charge*

Miss Margaret L. Blodgett, O.T.R., *Chief Occupational Therapist*

VETERANS ADMINISTRATION HOSPITALS

Central Office, Washington, D.C.

A.B.C. Knudson, M.D., *Chief, Physical Medicine and Rehabilitation Division*

Miss Dorothy Rouse, O.T.R., *Chief, Occupational Therapy Section*

OUTLINE OF COURSES

For electives and additional courses open to students in occupational therapy, consult the Announcements of Teachers College and the School of General Studies.

The University reserves the right to withdraw or modify these courses or to change the instructors as may be necessary.

DEGREE COURSE

JUNIOR YEAR

Winter Session

***Occupational Therapy 11—Orientation to occupational therapy.** 2 pts. Professor Franciscus and special lecturers.

A general survey of the field. History and development of occupational therapy with special references to present uses and techniques. Supplementary reading and reports. Orientation visits to hospital services.

Pathology 31—Elementary studies in pathology. 1 pt. Dr. Crowley.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alterations of function resulting from these influences.

Psychology 33—Clinical psychology. 2 pts. Dr. Burgemeister.

Lectures in this course describe the common mental maladjustments, undertaking to explain them in terms of general psychological principles. The social implications of abnormalities are emphasized.

Prerequisite: General psychology.

***Physiology 55—Human physiology.** 2 pts. Professor Di Salvo.

The dynamics of human processes, stressing the interrelationships of the various bodily systems.

Neuroanatomy 95—Anatomy of the nervous system. 2 pts. Professor Sciarra.

The anatomy of the nervous system of man, including: the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

***Anatomy 155—Human anatomy.** 3 pts. Professors Elftman and Noback.

Anatomy of the human body with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter being based on prepared dissection of the human body.

O.T. Fine Arts 11—Needlecrafts. 2 pts. Miss Brokaw and assistant.

The course includes instruction in clothing construction, hand sewing, and various forms of embroidery and allied needlecrafts (knitting, crocheting, and tatting). Care and use of the sewing machine, pattern alterations, the principles of upholstering, slip covering, and drapery making. Hospital projects and the use of needlecrafts for prevocational training are stressed.

Materials charge.

O.T. Fine Arts 163—Elementary Woodwork. 2 pts. Instructor to be announced.

This course is designed to orient the student to the fundamental principles of woodworking with hand tools. Careful workmanship and strong construction are stressed.

Materials charge.

O.T. Fine Arts 101—Fundamentals of art and design. 2 pts. Professor Arends.

A general survey course in the arts, stressing the fundamentals of design as applied to crafts, commercial design, drawing, and painting. Museum and store visits. Lectures, readings, and discussions.

Materials charge.

* Also an Advanced Standing course.

Spring Session

***Occupational Therapy 12—Application in major medical fields.** 2 pts. Professor Franciscus and special lecturers.

This course stresses the principles and practice of occupational therapy techniques as applied to the tuberculous, the mentally ill, and to patients with medical and surgical diagnoses. Supplementary readings and reports. Field visits.

***Psychiatry 102—Elementary psychiatry.** 2 pts. Professor Carter and Drs. Amols and Lesse.

Etiology and symptomatology of the major and minor psychoses including the psychoneuroses and their treatment. Lectures with clinical demonstrations and field trips.

***Neurology 106—Clinical neurology.** 2 pts. Dr. Greene.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

O.T. Fine Arts 14—General crafts. 1, 2, or 3 pts. Miss Brokaw and assistant.

This course includes many of the smaller crafts, such as: cord knotting, netting, braiding, rugmaking, chair seating, chip carving, and plastic fabrication. Emphasis is placed on basic techniques and their use in occupational therapy. Museum visit.

Materials charge.

***O.T. Fine Arts 26, 27—Pottery.** 2 pts. Mr. Leary.

An introduction to the possibilities and methods of using clay to create functional pottery with coils, with the potter's wheel, and by casting. Moldmaking, methods of decorating and glazing, and firing of glazes are studied for practical use in teaching.

Materials charge.

O.T. Fine Arts 30—Elementary weaving. 3 pts. Miss Brokaw and assistant.

Problems include the finger weaves and small appliances, such as cards, inkle looms, and rigid frames. Stress is laid on the mechanics and operation of loom weaving on a two-harness loom. A museum trip.

Materials charge.

O.T. Clerkship 2—Case evaluations of psychiatric patients. 2 pts. Miss Kilburn (co-ordinator).

Correlation of instruction in abnormal psychology, psychiatry, and occupational therapy theory by assigned patient work-ups in occupational therapy units. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion. Required written reports and field trips.

SENIOR YEAR

Winter Session

Occupational Therapy 21—Departmental organization and administration. 2 pts. Miss Kilburn and special lecturers.

Study of departmental organizations and administration in the various medical fields. The techniques of application of occupational therapy in geriatrics and pediatrics are included in this course. Supplementary reading, reports, and field trips.

Psychology 45—Child development. 2 pts. Dr. Blum.

The development of children from birth to maturity. Mental, motor, social, and emotional development at various periods of growth. Consideration of the practical implications of the development and characteristics of children at various age levels with respect to the exceptional child.

***Clinical Subjects 101—General medicine and surgery.** 2 pts. Drs. Wood and Powers.

General Medicine. Dr. Wood.

A survey of the more common diseases with emphasis on pulmonary tuberculosis and cardiac disorders. Lectures deal primarily with the relationship of pathological physiology to the development of signs and symptoms of disease.

General Surgery. Dr. Powers.

A survey of those common diseases for which there is surgical emphasis.

* Also an Advanced Standing course.

***Kinesiology 105—Applied anatomy and kinesiology.** 2 pts. Dr. Austlid and Miss Jameson.

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement. Analysis of skills used in daily activities and in physical and occupational therapy. Lecture and laboratory.

Motor Disabilities 121—Chronic motor disabilities and their treatment. 2 pts. Professors Hoberman and Snow, Dr. Greene, and special lecturers.

A consideration of motor disabilities due to developmental abnormalities or disease or injury to the central nervous system. Techniques in the management of these patients with particular stress on the use of physical and occupational therapy in their rehabilitation.

***O.T. Fine Arts 105-106—Interpretive design.** 2 pts. Miss Brokaw and assistant.

A course in which the principles of design are applied to occupational therapy media, such as: block printing, stenciling, silk screening, and cardboard construction. Museum visit.

Materials charge.

O.T. Fine Arts 165—Advanced woodwork. 2 pts. Instructor to be announced.

This course is a continuation of O.T. Fine Arts 163 and includes an introduction to the uses of power machinery.

Materials charge.

O.T. Clerkship 3—Case evaluations of medical and surgical patients. 2 pts. Miss Kilburn (coordinator).

Correlation of instruction in medicine, surgery, pediatrics, and occupational therapy theory by assigned patient work-ups in occupational therapy units and ward situations. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion. Written reports and field trips.

Spring Session

***Occupational Therapy 24—Application to orthopedic and neurological disabilities.** 2 pts. Miss Abbott.

Lecture and laboratory course in the application of techniques in treatment of physical injuries and diseases including orthopedic and neurological disabilities. Demonstration and return demonstration by the student.

***Clinical Subjects 102—Orthopedics, pediatrics, and visual disabilities.** 2 pts. Drs. Clark, Craig, and Wilson.

Orthopedics. Dr. Craig.

Lectures and clinical presentations descriptive of orthopedic conditions, including discussion of related problems—social, medical, surgical, and rehabilitation.

Pediatrics. Dr. Wilson.

A study of the common diseases of childhood.

Visual Disabilities. Dr. Clark.

A brief review of the anatomy and physiology of the eye, followed by a discussion of pathological conditions affecting the eye.

Exercise 112—Therapeutic exercise. 2 to 5 pts. Professors Darling, Hoberman, and Snow, Mrs. Weber, and associates.

This course covers the basic principles of therapeutic exercise and includes the physiology of exercise, muscle evaluation and reeducation, and tests and measurements. Lectures and laboratory.

***Rehabilitation 118—Agencies and techniques of rehabilitation.** 2 pts. Professor Francis (coordinator) and special lecturers.

A course designed to acquaint the student with community resources for the physical, psychological, social, and vocational rehabilitation of the handicapped. Legislation and organization of both public and private health agencies are studied. The course also includes orientation to auditory disabilities, their management and treatment.

* Also an Advanced Standing course.

***O.T. Graphic Arts 1R—Art of hand printing.** 1 or 2 pts. Messrs. Loos and Frey.

The fundamentals of printing and its application as a therapeutic exercise for handicapped persons. Instruction in type faces, proofreading, and presswork. The laboratory affords practical application of hand typesetting, including operation of hand and foot presses. Films, demonstrations, and field trips.

***O.T. Fine Arts 17-18—Leatherwork.** 1 or 2 pts. Miss Brokaw and assistant.

A course in hand leatherwork. Techniques of decoration and construction of small projects as used in occupational therapy.

Materials charge.

O.T. Fine Arts 32—Advanced weaving. 2 pts. Miss House.

Weaving on two-, four-, and eight-harness looms. Standard and special weaves. Making of patterns and drafts, including draft reading and tie-up. Experimenting with fibers and weaves with special emphasis on color, texture, and design. Trips to museums and other institutions.

Materials charge.

***O.T. Fine Arts 168—Metalwork and jewelry.** 2 pts. Mr. Lisenco.

A course in the basic techniques of hammered metal and jewelry. Elementary principles of mechanical drawing.

Materials charge.

O.T. Clerkship 4—Case evaluations in physical and vocational rehabilitation. 2 pts. Professor Franciscus (coordinator).

Correlation of instruction in orthopedics, neurology, and rehabilitation methods by assigned patient work-ups. A rotating clinical schedule is assigned each student. Each experience is followed by a group seminar.

Required written reports and field trips.

ADVANCED STANDING COURSE*Winter Session*

All courses marked with an asterisk under Winter Session, Junior Year and Senior Year, must be taken. In addition:

O.T. Fine Arts 15—General crafts and needle crafts. 1, 2, or 3 pts. Miss Brokaw and assistant.

The general crafts section of this course includes cordage, plastics, wood carving, chair seating, and rug making. The needlecraft section is designed to supplement the student's knowledge and to guide her in the application of all types of needlework to occupational therapy.

Materials charge.

O.T. Fine Arts 17-18—Leatherwork. See Spring Session, Senior Year.**O.T. Fine Arts 26-27—Pottery.** See Spring Session, Junior Year.**O.T. Fine Arts 35—Weaving.** 2 pts. Miss Brokaw and assistant.

Techniques of loom and small appliance weaving are covered with particular emphasis on the mechanics of weaving and the application to occupational therapy situations. Acquaintance with the basic weaves, textures, and simple patterns are gained through the use of various fibers.

Materials charge.

Spring Session

All courses marked with an asterisk under Spring Session, Junior Year and Senior Year, must be taken. In addition:

O.T. Fine Arts 105-106—Interpretive design. See Winter Session, Senior Year.**O.T. Fine Arts 166—Woodwork.** 2 pts. Instructor to be announced.

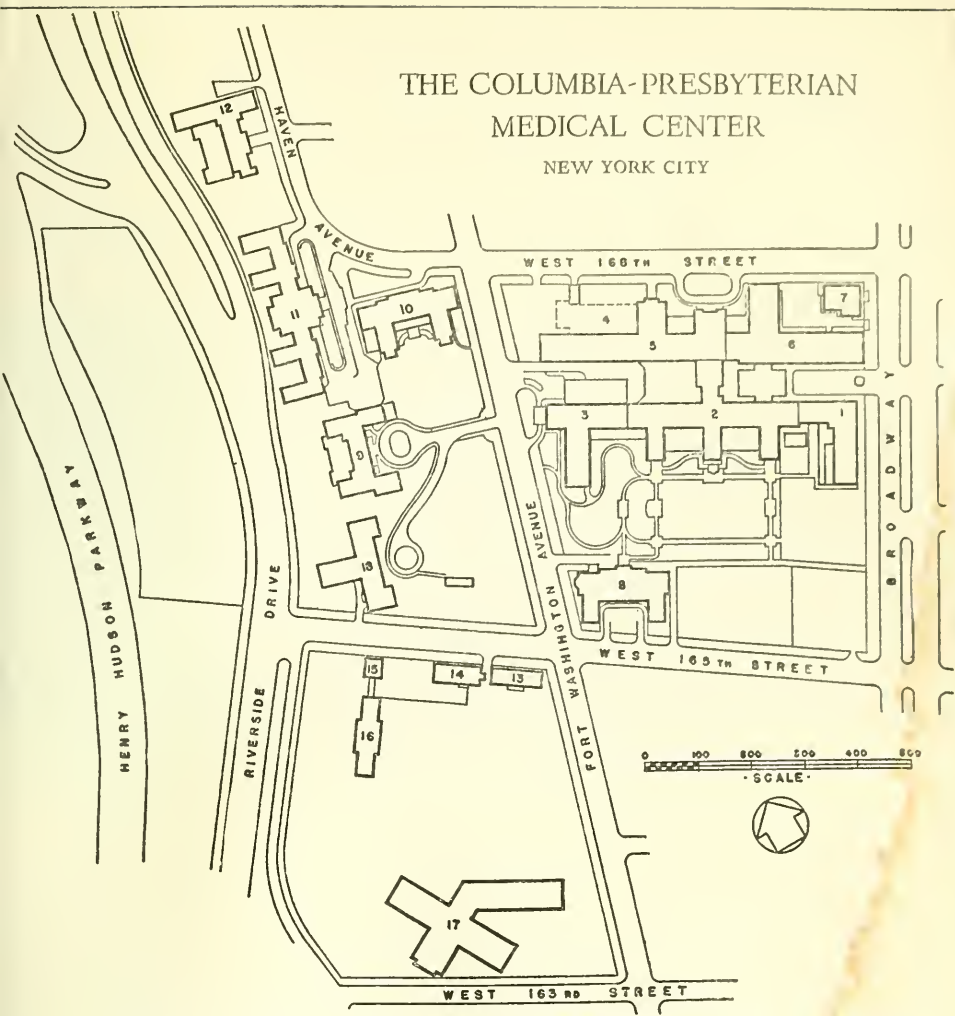
A course designed to orient students in the fundamentals of woodworking and to develop a reasonable skill in the use of hand tools and finishing processes. An introduction to the use of power tools.

Materials charge.

* Also an Advanced Standing course.

THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER

NEW YORK CITY



- | | |
|--|---|
| 1. Babies Hospital | 8. Institute of Ophthalmology |
| 2. Presbyterian Hospital | 9. Maxwell Hall |
| Sloane Hospital | 10. Neurological Institute |
| New York Orthopaedic Hospital | 11. New York State Psychiatric Institute and Hospital |
| 3. Harkness Pavilion | 12. Bard Hall |
| 4. Power plant | 13, 16. Storage |
| 5. College of Physicians and Surgeons | 14. Shops |
| 6. Vanderbilt Clinic | 15. Housing |
| School of Dental and Oral Surgery | 17. Francis Delafield Hospital, New York City Department of Hospitals |
| 7. Washington Heights Health and Teaching Center, New York City Department of Health | 18. Edward S. Harkness Memorial Hall |
| School of Public Health | |

STAC
MEDICAL
1911
Columbia University
BULLETIN OF INFORMATION

Fifty-fifth Series, No. 4

January 29, 1955

ANNOUNCEMENT OF COURSES
FOR
PHYSICAL THERAPISTS

OCCUPATIONAL THERAPISTS
COLLEGE OF PHYSICIANS AND SURGEONS



FOR THE WINTER AND SPRING SESSIONS

1955-1956

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N. Y.

Columbia University Bulletin of Information

Fifty-fifth Series, No. 4

January 29, 1955

Issued at Columbia University, Morningside Heights, New York 27, N.Y., weekly from January for forty-six consecutive issues. Reentered as second-class matter August 15, 1952, at the Post Office at New York, N.Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the report of the President to the Trustees and the announcements of the several colleges and schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these announcements will be sent upon written application to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N.Y. Copies may be obtained in person from the Office of the Secretary, 213 Low Memorial Library.

C. U. P. 5,500—1955

INFORMATION

Application blanks and further information about the courses in this announcement may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. The office is open week-days 9 A.M. to 5 P.M.; Saturdays by appointment. Telephone: WAdsworth 3-2500, extension 7941.

WINTER SESSION

September 29, 1955, through February 2, 1956

Registration—September 26 through 28

SPRING SESSION

February 8, 1956, through May 31, 1956

Registration—February 6 through February 7

CONDENSED ACADEMIC CALENDAR

The complete academic calendar for the academic year 1955-1956 may be obtained from the Secretary of the University. The following calendar relates only to students in the Courses for Dental Hygienists and in the Courses for Physical Therapists and Occupational Therapists.

1955

September	26	Monday, through September 28, Wednesday. Registration (including payment of fees) for the Winter Session. Students allowed to register after the period specified must pay a late fee.
September	29	Thursday. Classes begin.
October	8	Saturday. Last day for making changes in programs for Winter Session.
October	26	Wednesday. Award of October degrees.
November	8	Tuesday. Election Day. Holiday.
November	22	Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
November	24	Thursday, through November 27, Sunday. Thanksgiving holidays.
December	1	Thursday. Last day for filing application or renewal of application for degrees and certificates to be awarded in February. The privilege of later application may be granted on payment of a late fee.
December	21	Wednesday, through

1956

January	3	Tuesday. Christmas holidays.
January	23	Monday, through February 2, Thursday. Midyear examinations.
February	6	Monday through February 7, Tuesday. Registration (including payment of fees) for the Spring Session. Students allowed to register after the period specified must pay a late fee.
February	8	Wednesday. Classes begin.
February	18	Saturday. Last day for making changes in programs for Spring Session.
February	29	Award of February degrees.
March	1	Thursday. Last day for filing application or renewal of application for all degrees and certificates to be conferred in June. The privilege of later application may be granted on payment of a late fee.
March	25	Sunday, through April 1, Sunday. Easter holidays.
May	21	Monday, through May 31, Thursday. Final examinations.

COMMENCEMENT, JUNE 3 TO JUNE 5

June	3	Sunday. Baccalaureate Service.
June	5	Tuesday. Conferring of degrees and certificates.

August	1	Wednesday. Last day for filing application or renewal of application for degrees and certificates to be awarded in October. The privilege of later application may be granted on payment of a late fee.
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COLUMBIA-PRESBYTERIAN MEDICAL CENTER

PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

This announcement describes two separate courses offered by Columbia University: Physical Therapy and Occupational Therapy. These courses are given at the Columbia-Presbyterian Medical Center under the auspices of the Department of Physical Medicine and Rehabilitation. The courses of study are approved by the Council on Medical Education and Hospitals of the American Medical Association and prepare the student to meet the qualifications for registration in either physical or occupational therapy. See pages 11-21 for physical therapy and pages 22-36 for occupational therapy.

ADMISSION

Prior to admission to professional courses in physical or occupational therapy, the applicant must have taken preprofessional subjects at an approved college of his choice to the extent of at least sixty semester credits. Should the student desire to complete this work at Columbia University, application should be made directly to Barnard College (undergraduate women), Columbia College (undergraduate men), or the School of General Studies (adult men and women).

Application for transfer to professional courses should be made on the official application form of the school in question and should be filed and accepted well in advance of the time the student expects to begin his studies. Acceptance of a student for admission is based on grounds of character and health as well as on the fulfillment of academic requirements. For further details on admission requirements and procedure see pages 13 and 24.

REGISTRATION

Before attending any University course, every student must present himself at the Office of the Registrar and file a registration form, giving such information as may be required. The office is situated on the second floor of the College of Physicians and Surgeons, 630 West 168th Street, and is open from 9 A.M. to 5 P.M. daily except Saturdays and holidays, and on Saturday from 9 A.M. to 12 M. The periods set aside for registration of students in physical and occupational therapy for the Winter and Spring Sessions of the academic year 1955-1956 are as follows:

Winter Session: Monday, September 26 through Wednesday, September 28.

Spring Session: Monday, February 6 through Tuesday, February 7.

Programs, and any changes of program, for all students in physical and occupational therapy must be approved before registration by the directors in physical and occupational therapy.

FEEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. Registration will not be complete until such fees are paid, and no reduction is made for late registration. Checks should be drawn to the order of Columbia University and presented in person or mailed to the Office of the Bursar. Under the regulations, the privileges of the University are not available to any student until he has completed his registration.

The fees to be paid by students are subject to change at any time at the discretion of the Trustees.

The following fees are prescribed for physical and occupational therapy:

a) University fee

For each Winter or Spring Session or any part thereof, for students enrolled for:

From one to four points, inclusive	\$ 5.00
More than four points to nine points, inclusive	10.00
More than nine points	20.00

For any period not longer than a Winter or Spring Session:

For persons either engaged in research or desiring to use other University facilities	20.00
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b) Tuition fee

For all courses except where a special fee is fixed, per point 25.00

With the proviso that the fee for a Winter or Spring Session in the case of a student enrolled for fifteen or more points in physical therapy or in occupational therapy shall be 375.00

c) Clinical supervisory fee 10.00

d) Student health and hospitalization fee

This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospitalization insurance and to pay part of the cost of the student health service. For all students, per academic year 25.00

e) Fee for application

For any degree	20.00
For any certificate	10.00

f) Privileges

Late registration or late application for a degree or certificate or for deficiency or special examinations	3.00
Renewal of application for any degree or certificate	1.00
Deficiency and special examinations	3.00

The conditions under which such privileges shall be granted are to be determined by the Registrar with the approval of the President.

g) Rebates

The University fee, the fee for application for any degree or certificate, and the student health and hospitalization fee shall not be subject to rebate. After the last day of the period provided for change of course, as announced in the University Calendar, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives notice from the student.

For the ultimate date for the completion of registration and for filing an application for a special examination, or for a certificate, without the payment of an additional fee, see the University Calendar.

A deposit for the use of lockers, keys, apparatus, material, and the like is required in certain courses.

Acceptance Fee.—Within two weeks after an applicant has been notified that his application has been accepted, he must notify the director that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will be retained by the University and, if the applicant does not register for the following academic year, it will not be returned, unless the University for any reason cancels the acceptance. If he registers in the courses for physical and occupational therapy in the class to which he has been admitted, the amount of the acceptance fee will be deducted from his tuition fees.

GENERAL REGULATIONS

RESIDENCE

All women students under twenty-one years of age, who are not living at home or with relatives, are required to secure approval of their residence from the Directors of Training Courses, Office of Physical and Occupational Therapy, College of Physicians and Surgeons. Information concerning desirable accommodations may be obtained from this office (see also pages 6-7).

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

STUDENT HEALTH SERVICE

A physical examination (including X-ray and tuberculin tests) will be given each student in the professional courses during the first session of attendance. Further physical examinations will be given during the training period, whenever it is deemed advisable.

Students requiring hospitalization will be taken care of either in the wards of the Medical Center, or elsewhere, under a hospitalization insurance policy.

Daily office hours are held for sick students by the Student Health Service, Room 2-200, Vanderbilt Clinic. Members of the Health Service are available to attend ill students if they live near the Medical Center.

ABSENCES

It is a student's duty to attend punctually each class or laboratory exercise in each course. For credit toward the certificate and degree, regular attendance is required in addition to the proficiency attested by classwork and examination.

Students who find that stated academic exercises are fixed on days set apart for religious observance by the church to which they belong, and who are prevented by

conscientious scruples from performing their University duties on those days, should come to the Office of Physical and Occupational Therapy in advance in order to make any necessary arrangements.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved powers of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper director. Students withdrawing are required to notify the Registrar immediately.

The director may, for reasons of weight, grant a leave of absence to a student in good standing.

GRADES AND CREDITS

The student's performance in a course is reported according to the following grades: A, excellent; B, good; C, fair; and F, failure. A, B, and C are passing grades counting for credit toward the degree or certificate and accepted as the basis for advancement to a next higher course. A student who does not receive a mark of C or above in a prescribed course must repeat that course.

The mark MU is not a grade and simply implies that in the opinion of the instructor the student may be given the privilege of taking a deficiency examination. When this mark is given at the end of the Winter Session, it does not necessarily mean that the student may not pursue his courses in the Spring Session, but that he will get no credit for the course in question until he has received a definite passing grade.

LIVING ACCOMMODATIONS

The residence halls of the University are located on or immediately adjacent to the Campus and afford easy access to libraries and classrooms as well as comfortable accommodations in an environment conducive to academic work. They serve also as a center of campus life and provide companionship for students of like interests. The University, therefore, desires its students to live whenever possible in residence halls.

Within several of the residence halls are dining rooms maintained for all students and faculty of the University.

Assignment of rooms is made on the session basis. Room payments are due at the beginning of each session, but in case of need other arrangements can be made.

Students coming from out of town to attend evening classes or those wishing to stay overnight at Columbia may secure accommodations by applying to the Livingston Hall Office (for men) or the Johnson Hall Office (for women).

Residence halls announcements and application blanks for rooms may be obtained (for men) from the Men's Residence Halls Office, 125 Livingston Hall, Columbia University, New York 27; (for women) from the Johnson Hall Office, 411 West 116th Street, New York 27. The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

RESIDENCE FOR MEN

There are four University residence halls, on South Quadrangle, which have accommodations for approximately 1,670 men. Hartley Hall, Livingston Hall, and the lower floors of John Jay Hall are reserved for students in Columbia College; Fernald Hall, for law and graduate students; and the upper floors of John Jay Hall, for graduate and professional school students. Rates for the academic year range from \$200 to \$410. There are a few rooms available at \$160 which are assigned only with the approval of the director of the University Placement Bureau, Alumni House. Application for these accommodations should be filed with the Men's Residence Halls Office, together with the statement that application has been made to the director of the University Placement Bureau for his approval. These lowest-priced rooms will not be assigned to students holding scholarships amounting to \$400 or more.

All rates are subject to revision if costs change greatly.

The main dining room is on the first floor of John Jay Hall. The lower John Jay Lobby leads to the Lion's Den, a grillroom (open to both men and women students) with facilities for late breakfast, lunch, and dinner.

RESIDENCE FOR WOMEN

Johnson Hall is provided by the University as a residence for women students in the graduate and professional schools. A limited number of rooms are assigned to full-time undergraduate students who are matriculated for a degree. The Hall was erected and particularly designed for the comfort and convenience of women students. With its various social rooms, attractive dining room, and comfortable bedrooms, it offers pleasant conditions for University life. The rates for rooms range from \$320 to \$455 for the academic year. There are a limited number of suites (two adjoining rooms) from \$300-\$390 per person. The rate for two meals a day, breakfast and dinner, is \$350 for the academic year. All rates are subject to change if costs increase greatly. Residents of Johnson Hall are required to take breakfast and dinner in the dining room of Johnson Hall.

OFF-CAMPUS ACCOMMODATIONS

Columbia University maintains a registry of off-campus accommodations, where the addresses of available furnished rooms in the neighborhood may be obtained. It is not possible to obtain listings by mail as these accommodations are for immediate rental; moreover, it is advisable that rooms be engaged only after personal inspection. The registry is for the use of faculty, staff, and students of the University, and each applicant must show a letter of admission or some other official Columbia correspondence to be eligible for this service. There is no charge to either the student or the landlord and all financial arrangements must be concluded between the applicant and the landlord. The registry is located in Livingston Hall.

OTHER FACILITIES

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge as a center for the religious and social activities of the students. On the main and upper floors, reached by the campus entrance, are the offices of the Chaplain and his staff and of the three religious counselors. These floors also contain an auditorium, a lounge, meeting room, kitchen, and other facilities.

UNIVERSITY LIBRARIES

The physical and occupational therapy collection of reference books, periodicals, and pamphlets is housed in the Medical Library, which occupies parts of the three lower floors in the College of Physicians and Surgeons building. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works, through interlibrary loans, and through its unique bibliographic service.

The library contains approximately two hundred thousand volumes of books and journals. More than twenty-three hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the schools of Medicine, Dentistry, Nursing, Public Health, Physical and Occupational Therapy, and in the hospitals of the Medical Center.

The libraries on Morningside Heights, containing more than two million volumes, are open to all students of physical and occupational therapy. The main collection is housed in Butler Library, and special and departmental collections are located in various other buildings on the campus. They include collections on biology, education, engineering, psychology, sociology, and other subjects related to physical and occupational therapy and supplement the special collections available in the College of Physicians and Surgeons.

Leaflets describing the collections and services of the University Libraries are available in any of the library reading rooms. The Medical Library and all other libraries post their hours of opening and closing.

THE INSTITUTE FOR THE CRIPPLED AND DISABLED

The Institute for the Crippled and Disabled, located at 400 First Avenue, is affiliated with Columbia University and offers broad clinical and educational facilities for the training of physical therapy and occupational therapy students. An outstanding collection of reference books, periodicals, and pamphlets concerning the handicapped, their problems, and their rehabilitation is housed here, available to students in occupational and physical therapy at all times. An occupational therapy teaching unit, established at the institute, is used for instruction and houses a skills library. Special equipment for the instruction of kinesiology and for the instruction and laboratory practice of massage and exercise is provided for the students.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 A.M. to 5:30 P.M.; Saturdays, 8:45 A.M. to 1:30 P.M.

STUDENT ACTIVITIES

The Physical Therapy and Occupational Therapy Clubs are the student organizations in which activities of a recreational, social, and professional nature are carried on. Within these clubs each class of students has its own organization and officers with representatives on the University Student Council.

The Columbia University Student Council, composed of elected representatives from the students of the several schools and faculties of the University, represents the students in matters affecting the student body as a whole, with the object of promoting cooperation and understanding among the students, faculty, and administration.

At the request of the student group and with the approval of the administration, the occupational therapy student body functions under an honor system. By means of an honor board, with representation from each class, the students are given increased self-responsibility for their conduct in the observance of school regulations.

Students are encouraged to utilize the educational and cultural opportunities offered throughout the University campus and elsewhere in New York City.

Graduates of the physical and occupational therapy programs have alumni associations, which in turn are eligible for group membership in the Alumni Federation of Columbia University.

STUDENT AID

LOAN FUNDS

Loan funds are provided in a limited amount for the assistance of students, but it is the general policy to grant loans only to students who have satisfactorily completed at least one session of residence at the University. Application is made on a blank which may be obtained from the Office of the Bursar, 310 University Hall. Applications for loans for the Winter Session should be filed by September 15; for the Spring Session, by January 15.

EMPLOYMENT

The University Placement Bureau, located in Alumni House, is that department of the University through which men and women students and graduates are referred to suitable positions during their attendance at the University and after graduation. A booklet describing the facilities of the Placement Bureau and the more general types of employment opportunities available will be mailed upon request. Communications should be addressed to the Director of the University Placement Bureau, Alumni House, Columbia University, New York 27, N.Y.

The Physical and Occupational Therapy Office maintains a listing of positions throughout the country available to graduate therapists. Current graduates and alumni are encouraged to refer to the office for these positions.

POSTGRADUATE COURSE IN CEREBRAL PALSY

Cerebral Palsy 101 (October 10 to December 9, 1955) and *r101* (February 13 to April 13, 1956). Full time. Fees: \$200 plus \$10 University fee. Eight points of academic credit for students with suitable prerequisites. For qualified occupational and physical therapists with working experience. Other ancillary medical personnel may be admitted on an individual basis.

Varied aspects of the problem are presented during three weeks of lectures and demonstrations by approximately thirty instructors. During the next six weeks, four days a week of clinical experience are supplemented by one day of discussion and review guided by the course supervisors. The course endeavors to provide the student with a sound neurological background as a basis for critical thinking.

This course is sponsored by United Cerebral Palsy Associations, Incorporated. A listing of sources for scholarship aid is available. Further information and application forms are available from the Office of the Dean, College of Physicians and Surgeons, 630 West 168 Street, New York 32, New York.

PHYSICAL THERAPY

ADMINISTRATIVE OFFICERS

- GRAYSON KIRK, Ph.D., LL.D. *President of the University*
- JOHN A. KROUT, Ph.D., L.H.D., LL.D. . . . *Vice President and Provost of the University*
- WILLARD C. RAPPEYE, A.M., M.D., Sc.D., Med.Sc.D. . . . *Vice President in Charge of Medical Affairs; Dean, Faculty of Medicine*
- ROBERT C. DARLING, M.D. *Professor of Physical Medicine and Rehabilitation; Executive Officer, Department of Physical Medicine and Rehabilitation*
- WILLIAM BENHAM SNOW, M.D. . . . *Professor of Physical Medicine; Medical Director, Courses in Physical and Occupational Therapy*
- MARY E. CALLAHAN, B.S. *Assistant Professor and Director, Training for Physical Therapists*
- GLADYS L. JAMESON, A.M. *Instructor and Associate Director, Training for Physical Therapists*

OFFICERS OF INSTRUCTION

- MARGUERITE ABBOTT, O.T.R., *Instructor in Occupational Therapy; B.S., Tufts; Graduate, Boston School of Occupational Therapy*
- WILLIAM AMOLS, *Instructor in Neurology; A.B., M.D., New York University*
- EDITH H. BROKAW, O.T.R., *Associate in Occupational Therapy; Graduate, Philadelphia School of Occupational Therapy*
- MARY E. CALLAHAN, R.N., R.P.T., *Assistant Professor of Physical Therapy; B.S., New York University; Clinton Hospital School of Nursing; Certificate in Physical Therapy, Posse Institute*
- MARY A. COVER, R.P.T., *Instructor in Physical Therapy; Graduate, Sargent College; Certificate in Physical Therapy, Walter Reed Hospital*
- ROBERT C. DARLING, *Professor of Physical Medicine and Rehabilitation; A.B., M.D., Harvard*
- CASSIUS LOPEZ DE VICTORIA, *Instructor in Physical Medicine and Rehabilitation; Ph.D., Sheffield Scientific School, Yale; M.D., New York Homeopathic Medical College*
- HERBERT O. ELFTMAN, *Associate Professor of Anatomy; A.B., A.M., California; Ph.D., Columbia*
- GERTRUDE B. FINNERTY, R.P.T., *Associate in Physical Therapy; A.B., Hunter; Certificate in Physical Therapy, Stanford*
- MARIE LOUISE FRANCISCUS, O.T.R., *Assistant Professor of Occupational Therapy; Director, Training for Occupational Therapists; B.S., Ohio State; Graduate, Philadelphia School of Occupational Therapy*
- S. RAYMOND GAMBINO, *Instructor in Pathology; B.S., Antioch; M.D., Rochester*
- LEONARD J. GOLDWATER, *Professor of Occupational Medicine; A.B., Michigan; M.D., Med. Sc.D., New York University; M.S., Columbia*
- EDWARD E. GORDON, *Associate Professor of Rehabilitation Medicine; A.B., Harvard; M.D., Tufts*
- JUSTIN L. GREENE, *Instructor in Neurology; A.B., Columbia; M.D., Paris*
- A. DAVID GUREWITSCH, *Assistant Clinical Professor of Physical Medicine and Rehabilitation; M.D., Basel*
- EDITH HANSEN, R.N., P.H.N., R.P.T., *Instructor in Physical Therapy; General Lutheran Hospital School of Nursing*
- MORTON HOBERMAN, *Assistant Clinical Professor of Physical Medicine and Rehabilitation; B.S., New York University; M.B., M.D., Wayne*
- WILLIAM A. HORWITZ, *Assistant Professor of Psychiatry; M.D., Albany Medical College; Sc.D., Med.Sc.D., Columbia*
- GLADYS L. JAMESON, R.P.T., *Instructor in Physical Therapy; A.B., Syracuse; A.M., New York University; Certificate in Physical Therapy, Columbia*
- VIRGINIA T. KILBURN, O.T.R., *Instructor in Occupational Therapy; Associate Director, Training for Occupational Therapists; A.B., Wellesley; Certificate in Occupational Therapy, Columbia*
- MARION D. LAIRD, *Instructor in Obstetrics and Gynecology; B.A., Queens, Ontario; M.D., Toronto*
- STANLEY LESSE, *Assistant in Neurology; A.B., Pennsylvania; M.D., Jefferson Medical College*
- MILOS J. LOTA, *Research Assistant in Physical Medicine and Rehabilitation; M.D., Masaryk University*
- HARRISON L. McLAUGHLIN, *Professor of Clinical Orthopedic Surgery; M.D., Queens University Medical College*
- J. LOWRY MILLER, *Associate Clinical Professor of Dermatology; A.B., North Carolina; M.D., Pennsylvania*

JOSEPH MOLDAVER, *Associate in Neurology*; M.D., Brussels

CHARLES R. NOBACK, *Associate Professor of Anatomy*; B.S., Cornell; M.S., New York University; Ph.D., Minnesota

BERTRAM J. SANGER, *Associate Clinical Professor of Medicine*; A.B., Texas; M.D., Johns Hopkins

DANIEL SCIARRA, *Assistant Professor of Neurology*; A.B., M.D., Harvard

FREDERICK M. SMITH, *Associate Professor of Clinical Orthopedic Surgery*; A.B., A.M., Yale; M.D., Med.Sc.D., Columbia

WILLIAM BENHAM SNOW, *Professor of Physical Medicine*; M.D., Long Island College of Medicine

HELEN SPENCER, R.P.T., *Instructor in Physical Therapy*; A.B., Wellesley; Certificate in Physical Therapy, Hospital for Special Surgery

BLANCHE TALMUD, R.P.T., *Instructor in Physical Therapy*; B.S., Certificate in Physical Therapy, New York University

SHIH-CHUN WANG, *Associate Professor of Physiology*; B.S., Yenching; M.D., Peiping Union Medical College; Ph.D., Northwestern

SONYA E. WEBER, Ph.T., *Instructor in Physical Medicine and Rehabilitation*; A.B., Vienna; Sc.D., Eastern Reserve

SPECIAL LECTURERS

ARTHUR ABRAMSON, Chief, Physical Medicine Rehabilitation Service, Bronx Veterans Administration Hospital; B.S., M.D., C.M., McGill

OLAV AUSTLID, Assistant Director, Physical Medicine, Hospital for Special Surgery; M.D., Vienna

ELIZABETH M. CARRICK, Instructor, New York School of Social Work; B.S., Ohio State; A.M., New York School of Social Work

MINNIE M. GINN, Pediatric Psychiatric Clinic; B.S., Boston University, Ed.D., Harvard

CHARLES R. GOLDSTINE, Director, Prosthetic and Orthopedic Appliance Shops, Institute for the Crippled and Disabled

MIRIAM S. HAINES, B.S., A.M., Ph.D., Columbia

MILDRED HARRIS, R.P.T., A.B., Vassar; A.M., Columbia; Certificate in Physical Therapy, Hospital for Special Surgery

EDWARD F. HARTUNG, Assistant Clinical Professor of Medicine, New York University Post-Graduate Medical School; A.B., M.D., Columbia

VIOLET HAMWI, Research Scientist in Psychology, New York State Psychiatric Institute and Hospital; A.B., Iowa; A.M., Columbia

JETTA HENDIN, R.P.T., Physical Therapist, Columbia-Presbyterian Medical Center; B.S., Manitoba; Certificate in Physical Therapy, Hospital for Special Surgery

SHULAMITH KASTEIN, Speech Pathologist, Department of Otolaryngology, Columbia-Presbyterian Medical Center; Diploma, Vienna

HELEN HENNESSY, Orthopedic Consultant and Supervisor of Physical Therapy, Visiting Nurse Service of New York; R.N., Yale; B.S., Columbia; Certificate in Physical Therapy, Hospital for the Ruptured and Crippled

HENRY KESSLER, Director, The Kessler Institute for Rehabilitation; A.B., M.D., Cornell; A.M., Ph.D., Columbia

LUTIE C. LEAVELL, Associate Professor, Nursing Education, Teachers College; B.S., A.M., Columbia

JACOB MEISLIN, Chief, Physical Medicine and Rehabilitation, Franklin Delano Roosevelt Hospital; B.S., College of the City of New York; M.D., Lausanne

BEVERLY C. SMITH, A.B., M.D., Virginia

JOSEPH E. SNYDER, Assistant Vice President, Presbyterian Hospital; A.B., Nebraska; M.D., Pennsylvania

PHYSICAL THERAPY

Physical therapy is the treatment of disease and injury by the use of such agents as sunshine, water, exercise, massage, mechanical forces, and electricity. Functional rehabilitation of persons injured by disease or accident is a pressing medical need; the skillful application of physical therapy following injury will do much to shorten the time of disability. The ultimate aim of any treatment is the maximal rehabilitation and adjustment of the patient. The success of this type of treatment is dependent upon the therapist's knowledge, care, and precision in the administration of the intelligent medical prescription.

The course of study here described gives the student a basic knowledge of the normal functions of the human body and of the pathology of those diseases and injuries in which physical therapy can be helpful in the optimum rehabilitation of the patient. In addition to theoretical classroom instruction and demonstrations, students observe treatment procedures and receive practice in teaching hospitals under University supervision.

The curriculum is planned to serve the educational needs of students working towards the Bachelor of Science degree or towards the Certificate of Proficiency in Physical Therapy.

The Bachelor of Science degree is offered upon satisfactory completion of the full Junior and Senior program which includes clinical experience. This program is superimposed upon two years of college work in liberal arts with a minimum of sixty semester credits including the proper science prerequisites.

The Certificate of Proficiency in Physical Therapy is offered upon satisfactory completion of the programs (academic and clinical) prescribed for students of advanced standing. This program is superimposed upon the background of one of the following:

1. Bachelor's degree from an accredited college or university
2. Graduation from an approved school of nursing

Graduates of either program will have had a minimum of four years' post-secondary education study including special professional courses in physical therapy.

Minimum standards for approved schools of physical therapy are set by the American Medical Association through the Council on Medical Education and Hospitals.

Graduates of either program are eligible for admission to the examination of the American Registry of Physical Therapists and for membership in the American Physical Therapy Association.

The law in New York State requires that a student who plans to practice as a physical therapist must pass the state qualifying examination. A student who expects to practice in another area of the country should become familiar with local requirements, so that any required examination may be taken as soon as possible after graduation.

ADMISSION REQUIREMENTS

Students are admitted in September only. Admission to the professional courses is open to qualified students from nineteen to thirty-five years of age. In subjects taken at other institutions for which transfer credit is allowed, a grade of C or better is required. The ability to swim is required for both programs of study in the second semester. Students unable to swim at the time of admission shall be responsible for securing instruction for themselves before the second semester. Applicants for admission must be graduates of approved high schools or the equivalent, and then must satisfy *one* of the following requirements:

Candidates for the degree course of study:

Two years or sixty semester credits of work in a college approved by Columbia University. Specific admission requirements include:

Six semester credits in biological science

Four semester credits in physics and/or chemistry (preferably both)

Six semester credits in psychology

Candidates for the advanced standing course of study:

- (a) Graduation from an approved college with at least a Bachelor of Science or Bachelor of Arts degree with science requirements as follows:

Eight semester credits in biological science

Six semester credits in physics and/or chemistry (preferably both)

Ten semester credits in social science (of which six must be in psychology)

Or

- (b) Graduation from an approved school of nursing

ADMISSION PROCEDURE

Forms to be used in making application for admission may be obtained by writing to the Physical Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. Such applications should be filed several months in advance of the time at which students wish to begin their studies.

Transcripts of all post-secondary education should be forwarded by the registrar of the respective schools directly to the Director of Physical Therapy.

A personal interview will be arranged for each applicant.

ESTIMATED EXPENSES

<i>University Expenses (total course)</i>	<i>Degree Course</i>	<i>Advanced Standing Course</i>
Tuition	\$1,500	\$750
University fees	80	40
Clinical supervisory fee	20	10
Books, materials, equipment, uniforms	105	90
Health and hospital fee	50	25
Degree or certificate application	20	10
<i>Total</i>	\$1,775	\$925

Living Expenses (academic year)

Room	\$320-\$455
Board	500
Subway and bus fares (within program)	65
<i>Total</i>	\$885-\$1,020

During summer clinical practice periods the students will have a variable amount of living expenses dependent upon the accommodations provided by the individual medical institution to which they are assigned.

COURSE OF STUDY IN PHYSICAL THERAPY

DEGREE COURSE

Junior Year: Winter Session

<i>Anatomy</i> 155	Human anatomy	3
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2
<i>Massage</i> 3	Essentials of massage	2
<i>Neuroanatomy</i> 95	Anatomy of the nervous system	2
<i>Orientation</i> 39	Professional ethics and institutional organization	1
<i>Physics</i> 111	Physics applied to physical medicine	2
<i>Physiology</i> 157	Aspects of human physiology	2
<i>Psychology</i> 33	Clinical psychology	2

Total points 16

Junior Year: Spring Session

<i>Clinical Experience</i> 2	Introduction to clinical experience	2
<i>Exercise</i> 112	Therapeutic exercise, including underwater techniques	5
<i>Hydrotherapy</i> 18	Theory and practice, including neuropsychiatric techniques	1
<i>Neurology</i> 106	Clinical neurology	2
<i>Orthopedics</i> 136	Survey of orthopedics	2
<i>Psychiatry</i> 102	Elementary psychiatry	2
<i>Thermotherapy</i> 10	Heat application and radiation	1
	Elective in administration and techniques of recreation	2

Total points 17

June and July: Clinical observation, instruction, and supervised practice

Senior Year: Winter Session

<i>Clinical Experience</i> 3	Supervised clinical practice	2
<i>Clinical Subjects</i> 29	Survey of medical and surgical conditions in relation to physical medicine	2
<i>Electrotherapy</i> 13	Theory and practice of electrotherapy	2
<i>Motor Disabilities</i> 121	Chronic motor disabilities and their treatment	2
<i>Nursing Procedures</i> 17	Simple bandaging, dressings, asepsis, and other techniques	1
<i>Orientation</i> 41	Seminar on social work and human behavior	1
<i>Pathology</i> 31	Elementary studies in pathology	1
<i>Psychiatry</i> 101	Psychosomatic aspects of physical medicine	1
Electives		3

Total points 15

Senior Year: Spring Session

<i>Biology 253b (T.C.)</i>	Anatomy and physiology	1
<i>Clinical Experience 4</i>	Supervised clinical practice (continued)	2
<i>Clinical Subjects 30</i>	Survey of medical and surgical conditions (continued)	2
<i>Orientation 16</i>	Seminar	2
<i>Physical Therapy 116</i>	Practical application of physical therapy	2
<i>Rehabilitation 150</i>	Rehabilitation techniques and problems of the handicapped	2
<i>Speech 162</i>	Principles and practice of speech science	2
<i>Electives</i>		2
		<i>Total points</i> 15

June: Clinical instruction and supervised practice

ADVANCED STANDING COURSE

Winter Session

<i>Anatomy 155</i>	Human anatomy	3
<i>Clinical Subjects 29</i>	Survey of medical and surgical conditions in relation to physical medicine	2
<i>Electrotherapy 13</i>	Theory and practice of electrotherapy	2
<i>Kinesiology 105</i>	Applied anatomy and kinesiology	2
<i>Massage 3</i>	Essentials of massage	2
<i>Neuroanatomy 95</i>	Anatomy of the nervous system	2
<i>Nursing Procedures 17</i>	Simple bandaging, dressings, asepsis, and other techniques	1
<i>Orientation 39</i>	Professional ethics and institutional organization	1
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Physics 111</i>	Physics applied to physical medicine	2
<i>Physiology 157</i>	Aspects of human physiology	2
		<i>Total points</i> 20

Spring Session

<i>Clinical Subjects 30</i>	Survey of medical and surgical conditions (continued)	2
<i>Exercise 112</i>	Therapeutic exercise including underwater techniques	5
<i>Hydrotherapy 18</i>	Theory and practice, including neuropsychiatric techniques	1
<i>Neurology 106</i>	Clinical neurology	2
<i>Orthopedics 136</i>	Survey of orthopedics	2
<i>Orientation 16</i>	Seminar	1
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Rehabilitation 150</i>	Rehabilitation techniques and problems of the handicapped	2
<i>Thermotherapy 10</i>	Heat application and radiation	1
		<i>Total points</i> 18

June, July, August, and September: Clinical instruction and supervised experience

HOSPITALS AFFILIATED FOR CLINICAL PRACTICE

Attendance in the hospitals and clinics listed below is concurrent with regular classroom work in the Winter and Spring Sessions. In addition, all students are required to spend a period during the summer in full-time clinical practice. During this period students attend lectures, clinics, and staff meetings, receive supervised practical experience in physical therapy, and are introduced to related treatment departments.

BLYTHEDALE, Valhalla, N.Y.

Jacob Reingold, *Executive Director*

A. David Gurewitsch, M.D., *Medical Director*

Carroll Wardlaw, R.P.T., *Head Physical Therapist*

BRONX VETERANS HOSPITAL, New York, N.Y.

Arthur Abramson, M.D., *Chief, Physical Medicine and Rehabilitation Service*

Morris Vogel, R.P.T., *Chief of Physical Therapy*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N.Y.

Alvin J. Binkert, *Vice President and General Manager*

William Benham Snow, M.D., *Director, Clinical Physical Medicine*

Presbyterian Hospital

Edith Hansen, R.N., R.P.T., *Head Physical Therapist*

Neurological Institute

Mary A. Cover, R.P.T., *Head Physical Therapist*

GRACE-NEW HAVEN COMMUNITY HOSPITAL, New Haven, Conn.

Thomas F. Hines, M.D., *Director of Physical Medicine and Rehabilitation*

Edith Nyman, R.P.T., *Head Physical Therapist*

HOSPITAL FOR CHRONIC ILLNESS, Rocky Hill, Conn.

A. N. Creadick, M.D., *Medical Director*

Annette Wolter, R.P.T., *Supervisor of Physical Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N.Y.

Willis C. Gorthy, *Director*

Edward E. Gordon, M.D., *Director of Medical Services*

Blanche Talmud, R.P.T., *Supervising Therapist*

INSTITUTE OF PHYSICAL MEDICINE AND REHABILITATION, New York University-Bellevue Medical Center, New York, N.Y.

Howard Rusk, M.D., *Director*

Donald A. Covalt, M.D., *Clinical Director*

Jack M. Hofkosh, R.P.T., *Supervisor, Physical Therapy Department*

JEWISH SANITARIUM AND HOSPITAL FOR CHRONIC DISEASES, Brooklyn, N.Y.

Benjamin Koven, M.D., *Medical Director, Physical Medicine and Rehabilitation*

M. Murray Chrystal, R.P.T., *Administrative Director of Physical Medicine and Rehabilitation*

KESSLER INSTITUTE FOR REHABILITATION, West Orange, N. J.

William K. Page, Jr., *Administrator*Henry H. Kessler, M.D., *Medical Director*Ruth Dickinson, R.P.T., *Director of Physical Therapy*

MARINE HOSPITAL, UNITED STATES PUBLIC HEALTH SERVICE, New York, N. Y.

Samuel M. Paley, M.D., *Director, Physical Medicine*Esther Anderson, R.P.T., *Chief Physical Therapist*

MORRIS MEMORIAL HOSPITAL, Milton, W. Va.

George I. Mattix, *Administrator*(Mrs.) Georgia Traub, R.P.T., *Chief Physical Therapist*

NEW YORK HOSPITAL, New York, N. Y.

Christian Hansson, M.D., *Director of Physical Medicine*Margaret Valentine Rennison, R.P.T., *Head Physical Therapist*

NEW YORK REGIONAL OFFICE, VETERANS ADMINISTRATION, RAY CLINICS, New York, N. Y.

Irving Tepperberg, M.D., *Chief, Physical Medicine Rehabilitation Service*Elmer Marjay, M.D., *Chief, Physical Medicine Group*G. DiNubila, *Chief Physical Therapist*

NEW YORK STATE REHABILITATION HOSPITAL, West Haverstraw, N. Y.

Austin J. Canning, M.D., *Director*Morton Hoberman, M.D., *Principal Physician, Physical Medicine and Rehabilitation*Margaret A. O'Neill, R.P.T., *Director, Department of Physical Therapy*Erbert Cicenja, R.P.T., *Director of Rehabilitation Section*

P.S. #85, Bronx, New York

William Benham Snow, M.D., *Medical Director*Jessie Armolino, *Teacher Coordinator*(Mrs.) Meriam Fraenkel, O.T.R., *Clinical Coordinator*

ST. BARNABAS HOSPITAL FOR CHRONIC DISEASES, Bronx, N. Y.

A. P. Merrill, M.D., M.H.A., *Superintendent*Robert A. Muller, M.D., *Director, Department of Physical Medicine and Rehabilitation*Manfred E. Lange, R.P.T., *Chief Physical Therapist*

ST. GILES CONVALESCENT HOME AND SCHOOL, Garden City, N. Y.

Norman D. Bailey, *General Manager*Pearl B. Shulver, R.P.T., *Coordinator of Therapies*

VETERANS ADMINISTRATION HOSPITAL, Brooklyn, N. Y.

Alto Eisert, M.D., *Chief, Physical Medicine and Rehabilitation*Owen W. Tester, R.P.T., *Chief of Physical Therapy*

VETERANS ADMINISTRATION HOSPITAL, Montrose, N. Y.

Richard L. Harris, M.D., *Manager*Jack Meislin, M.D., *Chief, Physical Medicine and Rehabilitation Service*Henry Stano, *Chief, Physical Therapy*

OUTLINE OF COURSES

For electives and additional courses open to students in physical therapy, consult the announcements of Teachers College and the School of General Studies.

The University reserves the right to withdraw or modify these courses or to change the instructors as may be necessary.

DEGREE COURSE

Junior Year: Winter Session

***Anatomy 155—Human anatomy.** Lectures and laboratory. 3 pts. Professors Elftman and Noback.

Anatomy of the human body with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter being based on prepared dissection of the human body.

***Kinesiology 105—Applied anatomy and kinesiology.** Lectures and laboratory. 2 pts. Dr. Austlid and Miss Jameson.

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement. Analysis of skills used in daily activities and in physical and occupational therapy.

***Massage 3—Essentials of massage.** Lectures and laboratory. 2 pts. Professors Callahan and Gurewitsch and Miss Jameson.

The theory and technique of massage with demonstrations and practice.

***Neuroanatomy 95—Anatomy of the nervous system.** 2 pts. Professor Sciarra.

Anatomy of the nervous system of man, including the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

***Orientation 39—Professional ethics and institutional organization.** 1 pt. Professor Snow.

Lectures governing appropriate conduct of medical assistants in the routine of their work. Orientation of medical workers toward institutional contacts.

***Physics 111—Physics applied to physical medicine.** Lectures and demonstrations. 2 pts. Dr. Lota.

Basic kinetics, radiation, hydro-dynamics, and electricity as they apply to the practice of physical therapy.

***Physiology 157—Aspects of human physiology.** Lectures and demonstrations. 2 pts. Professor Wang.

The physiology of the nervous system, of circulation, and of respiration. Emphasis on the physiology of exercise to meet the needs of the occupational therapy and physical therapy student.

Psychology 33—Clinical psychology. 2 pts. Miss Hamwi.

Lectures describing the common mental maladjustments, which are explained in terms of general psychological principles. The social implications of abnormalities are emphasized.

Prerequisite: *General psychology*.

Junior Year: Spring Session

Clinical Experience 2—Introduction to clinical experience. 2 pts.

Orientation to institutions, physical therapy departments, patients, keeping records, and in giving massage and exercise.

* Also an advanced standing course.

***Exercise 112—Therapeutic exercise, including underwater techniques.** Lectures and laboratory. 2 or 5 pts. Professors Snow, Darling, and Hoberman, Mrs. Weber, Miss Harris, and associates.

The basic principles of therapeutic exercise, including physiology of exercise, muscle evaluation and reeducation, tests and measurements, techniques of relaxation, and underwater exercises.

***Hydrotherapy 18—Theory and practice, including neuropsychiatric techniques.** Lectures and laboratory. 1 pt. Mrs. Finnerty.

The physiological effects of water as a therapeutic agent; hydrotherapeutic techniques and other applications.

***Neurology 106—Clinical neurology.** 2 pts. Dr. Greene.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

***Orthopedics 136—Orthopedics.** 2 pts. Instructor to be announced.

Lectures and clinical presentations descriptive of orthopedic conditions, including discussion of related problems—social, medical, surgical, and rehabilitation.

***Psychiatry 102—Elementary psychiatry.** 2 pts. Drs. Lesse and Amols.

Etiology and symptomatology of the major and minor psychoses, including the psychoneuroses and their treatment. Lectures with clinical demonstrations and field trips.

***Thermotherapy 10—Heat application and radiation.** 1 pt. Professor Gordon.

A study of spectral radiation and the theory and technique of application of radiation of various types.

Senior Year: Winter Session

Clinical Experience 3—Supervised clinical practice. 2 pts.

Lectures, observation, demonstrations, and supervised practice in various clinics of physical medicine and rehabilitation.

***Clinical Subjects 29—Survey of medical and surgical conditions in relation to physical medicine.** Lectures and demonstrations. 2 pts. Professor Snow and associates.

This course gives the student a closer acquaintance with disease as it occurs in the practice of physical medicine. Specialists discuss the problems in their fields of practice, including particular pathology and the needs of physical medicine. This analysis is followed by prescriptive physical therapy to cover these special indications. There will be further clinical practice in hospitals.

***Electrotherapy 13—Theory and practice of electrotherapy.** 2 pts. Professor Snow and special lecturers.

Theory and principles of technique of the diagnostic and therapeutic uses of high frequency, galvanic, and other low frequency currents.

Motor Disabilities 121—Chronic motor disabilities and their treatment. 2 pts. Professors Snow and Hoberman, Dr. Greene and special lecturers.

A consideration of motor disabilities due to developmental abnormalities of the central nervous system. Techniques in the management of these patients with particular stress on the use of physical and occupational therapy in their rehabilitation.

***Nursing Procedures 17—Bandaging and dressings.** Lectures and laboratory. 1 pt. Mrs. Finnerty.

The techniques of bandaging, asepsis, handling of dressings, and bedside conduct.

Orientation 41—Seminar on social work and human behavior. 1 pt. Mrs. Carrick.

Orientation to social work as related to what we learn about human behavior and its relationship to physical therapy.

* Also an advanced standing course.

***Pathology 31—Elementary studies in pathology.** 1 pt. Dr. Gambino.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alterations of function resulting from these influences.

Psychiatry 101—Psychosomatic aspects of physical medicine. 1 pt. Dr. Hornick.

A consideration of the emotional aspects of all disease.

*Senior Year: Spring Session***Biology 253b (T.C.)—Anatomy and physiology.** Lectures and laboratory. 1 pt. Miss Leavell.

A functional and anatomical study of the bone-muscle-joint units, including nerve and blood supply.

Prerequisite: *Biology 153* or equivalent. Laboratory fee \$1.

Clinical Experience 4—Supervised clinical experience. 2 pts.

Continuation of *Clinical Experience 3*.

***Clinical Subjects 30—Survey of medical and surgical conditions in relation to physical medicine.** Lectures and demonstrations. 2 pts. Professor Snow and associates.

Continuation of *Clinical Subjects 29*.

***Orientation 16—Seminar.** 1 or 2 pts. Professor Callahan and Misses Kilburn and Jamerson.

Lecture and discussion of topics of importance to the therapist in practice, including organization and administration in departments of physical therapy; job placement and recent developments in physical medicine. Seniors will register for two points which will include a general survey of occupational therapy, with emphasis on theoretical principles as applied to major disability areas.

Physical Therapy 116—Practical application of physical therapy. 2 pts. Professor Snow and associates.

Integration and application of the fundamental principles and skills already learned to specific conditions.

Rehabilitation 150—Rehabilitation techniques and problems of the handicapped. Lectures and demonstrations. 2 pts. Miss Talmud.

Theory, practice, and evaluation of functional activities; types, application, and care of supportive apparatus.

Speech 162—Principles and practice of speech science. 2 pts. Instructor to be announced.

This course covers the basic anatomy and physiology underlying speech science. Consideration will be given to the pathology of speech abnormalities and the therapeutic approach for their correction.

ADVANCED STANDING COURSE

All courses marked with an asterisk in the degree program, Junior and Senior Years, must be taken.

* Also an advanced standing course.

OCCUPATIONAL THERAPY

ADMINISTRATIVE OFFICERS

- GRAYSON KIRK, Ph.D., LL.D. *President of the University*
- JOHN A. KROUT, Ph.D., L.H.D., LL.D. . . . *Vice President and Provost of the University*
- WILLARD C. RAPPLEYE, A.M., M.D., Sc.D., Med. Sc.D. . . . *Vice President in Charge of Medical Affairs; Dean, Faculty of Medicine*
- ROBERT C. DARLING, M.D. *Professor of Physical Medicine and Rehabilitation; Executive Officer, Department of Physical Medicine and Rehabilitation*
- WILLIAM BENHAM SNOW, M.D. . . . *Professor of Physical Medicine; Medical Director, Courses in Physical and Occupational Therapy*
- MARIE LOUISE FRANCISCUS, B.S. *Assistant Professor and Director, Training for Occupational Therapists*
- VIRGINIA T. KILBURN, A.B. *Instructor and Associate Director, Training for Occupational Therapists*

OFFICERS OF INSTRUCTION

- MARGUERITE ABBOTT, O.T.R., *Instructor in Occupational Therapy; B.S., Tufts; Graduate, Boston School of Occupational Therapy*
- WILLIAM AMOLS, *Instructor in Neurology; A.B., M.D., New York University*
- MICHAEL ANTELL, *Assistant Professor of Public Health Practice; M.D., Long Island College; M.P.H., Harvard*
- JACK ARENDS, *Assistant Professor of Fine Arts, Teacher College; A.B., Iowa State Teachers College; A.M., Ed.D., Columbia*
- NANCY D. BERRYMAN, O.T.R., *Assistant in Occupational Therapy; B.S., Certificate in Occupational Therapy, Wisconsin*
- EDITH H. BROKAW, O.T.R., *Associate in Occupational Therapy; Graduate, Philadelphia School of Occupational Therapy*
- MARY E. CALLAHAN, R.N., R.P.T., *Assistant Professor of Physical Therapy; Director, Training for Physical Therapists; B.S., New York University; Clinton Hospital School of Nursing; Certificate in Physical Therapy, Posse Institute*
- GRAHAM CLARK, *Instructor in Ophthalmology; B.S., M.D., Virginia*
- ROBERT C. DARLING, *Professor of Physical Medicine and Rehabilitation; A.B., M.D., Harvard*
- NICHOLAS A. DI SALVO, *Assistant Professor of Physiology; B.S., College of the City of New York; D.D.S., Ph.D., Columbia*
- HERBERT O. ELFTMAN, *Associate Professor of Anatomy; A.B., A.M., California; Ph.D., Columbia*
- GERTRUDE B. FINNERTY, R.P.T., *Associate in Physical Therapy; A.B., Hunter; Certificate in Physical Therapy, Stanford*
- MARIE LOUISE FRANCISCUS, O.T.R., *Assistant Professor of Occupational Therapy; B.S., Ohio State; Graduate, Philadelphia School of Occupational Therapy*
- EDWARD J. FREY, *Lecturer in Graphic Arts, School of General Studies*
- S. RAYMOND GAMBINO, *Instructor in Pathology; B.S., Antioch; M.D., Rochester*
- EDWARD E. GORDON, *Associate Professor of Rehabilitation Medicine; A.B., Harvard; M.D., Tufts*
- JUSTIN L. GREENE, *Instructor in Neurology; A.B., Columbia; M.D., Paris*
- MORTON HOBERMAN, *Assistant Clinical Professor of Physical Medicine and Rehabilitation; B.S., New York University; M.B., M.D., Wayne*
- GLADYS L. JAMESON, R.P.T., *Instructor in Physical Therapy; Associate Director, Training for Physical Therapists; A.B., Syracuse; A.M., New York University; Certificate in Physical Therapy, Columbia*
- VIRGINIA T. KILBURN, O.T.R., *Instructor in Occupational Therapy; A.B., Wellesley; Certificate in Occupational Therapy, Columbia*
- JOHN S. LEARY, *Instructor in Fine and Industrial Arts, Teachers College; B.F.A., A.M., Ohio State*
- STANLEY LESSE, *Assistant in Neurology; A.B., Pennsylvania; M.D., Jefferson*
- PAUL LINDENBERG, *Instructor in Otolaryngology; M.D., Vienna*
- YASHA LISENCO, *Instructor in Fine and Industrial Arts, Teachers College; B.S., College of the City of New York; A.M., Columbia*
- MELVIN LOOS, *Adjunct Professor of Graphic Arts, School of General Studies; Manager, Printing Office, Columbia University Press*

CHARLES R. NOBACK, *Associate Professor of Anatomy*; B.S., Cornell; M.S., New York University; Ph.D., Minnesota

ISABEL ROBINAULT, O.T.R., *Instructor in Occupational Therapy*; A.B., Barnard; A.M., Certificate in Occupational Therapy, New York University

DANIEL SCIARRA, *Assistant Professor of Neurology*; A.B., M.D., Harvard

WILLIAM BENHAM SNOW, *Professor of Physical Medicine*; M.D., Long Island College of Medicine

HELEN SPENCER, R.P.T., *Instructor in Physical Therapy*; A.B., Wellesley; Certificate in Physical Therapy, Hospital for Special Surgery

BLANCHE TALMUD, R.P.T., *Instructor in Physical Therapy*; B.S., Certificate in Physical Therapy, New York University

SONYA E. WEBER, Ph.T., *Instructor in Physical Medicine and Rehabilitation*; A.B., Vienna; Sc.D., Eastern Reserve

THELMA L. WELLERSON, O.T.R., *Instructor in Occupational Therapy*; B.S. in Occupational Therapy, A.M., Columbia

HELEN P. WHITE, O.T.R., *Instructor in Occupational Therapy*; A.B., Michigan; A.M., New York University; Graduate, Philadelphia School of Occupational Therapy

JOHN A. WOOD, *Assistant in Medicine*; A.B., M.D., Harvard

SPECIAL LECTURERS

NORMA A. ALESSANDRINI, O.T.R., *Director, Children's Recreation Service, Bellevue Hospital*; B.S., Cornell; Certificate in Occupational Therapy, Columbia

OLAV AUSTLID, *Assistant Director, Physical Medicine, Hospital for Special Surgery*; M.D., Vienna

LUCILLE H. BLUM, *Senior Psychologist, Post-graduate Center for Psychotherapy, Inc.*; B.S., A.M., Ph.D., Columbia

CECILE L. CROTTY, *Recreation Instructor, New York State Psychiatric Institute and Hospital*; Diploma, Posse-Nissen College of Physical Education

MARGUERITE EMERY, O.T.R., *Supervisor, Out Patient Occupational Therapy Unit, Rockland State Hospital, Orangeburg, N.Y.*

MARJORIE FISH, O.T.R., *Executive Director, American Occupational Therapy Association*; A.B., Swarthmore; A.M., Columbia; Graduate, Boston School of Occupational Therapy

CLAIRE S. GLASSER, O.T.R., *Director of Occupational Therapy, Main Hospital of New York Hospital*; B.S. in Occupational Therapy, Columbia

VIOLET HAMWI, *Research Scientist in Psychology, New York State Psychiatric Institute and Hospital*; A.B., Iowa; A.M., Columbia

FRANCES HEESS, O.T.R., *Director of Occupational Therapy, Goldwater Memorial Hospital*; Graduate, Philadelphia School of Occupational Therapy

MARGARETTE N. HELMLE, *Director, Rehabilitation Service, Brooklyn Tuberculosis and Health Association*

FLORENCE E. HOUSE, *Instructor in Weaving*; B.S., A.M., Columbia

SHULAMITH KASTEIN, *Speech Pathologist, Department of Otolaryngology, Columbia-Presbyterian Medical Center*; Diploma, Vienna

ELEANOR C. KILLE, O.T.R., *Occupational Therapy Supervisor, Southbury Training School*; Graduate, Philadelphia School of Occupational Therapy

HELEN C. MATHIAS, O.T.R., *Director, Occupational Therapy, Bellevue Hospital*; A.B., Montclair Teachers College; Graduate, Philadelphia School of Occupational Therapy

AGNES D. NESS, O.T.R., *Teacher, Vocational Department, Lexington School for the Deaf*; B.S., Certificate in Occupational Therapy, New York University; A.M., Columbia

JANET PINNER, *Director of Selective Placement Service, New York State Employment Service*; A.B., Adelphi

CHARLES RITTER, *Consultant, Special Aids and Appliances, American Foundation for the Blind, Inc.*

MORTON A. SEIDENFELD, *Director of Psychological Services and Public Education, National Foundation for Infantile Paralysis*; B.S., Washington; M.S., Ph.D., Pennsylvania

JOSEPH E. SNYDER, *Assistant Vice-President, Presbyterian Hospital*; A.B., Nebraska; M.D., Pennsylvania

MILDRED A. SPARGO, O.T.R., *Director, Occupational Therapy, Payne Whitney Psychiatric Clinic of New York Hospital*; Graduate, Boston School of Occupational Therapy

ALICE R. TREI, O.T.R., *Senior Occupational Therapist, New York State Psychiatric Institute and Hospital*; Certificate in Occupational Therapy, Columbia; B.S., New York University

ARTHUR B. VOORHEES, JR., *Resident in Surgery, Presbyterian Hospital*; M.D., Columbia

OCCUPATIONAL THERAPY

Occupational therapy is the administration of medically prescribed treatment in the form of supervised activity for persons injured in body or mind by accident or disease. Creative and manual arts, recreational activities, educational pursuits, prevocational exploration, and the activities of daily living are used in occupational therapy programs to improve physical function and to promote mental, social, and economic adjustment of the patient. Occupational therapy plays an integral part in modern rehabilitation programs for the mentally or physically ill.

Two courses of study are offered: one of twenty-five months' duration leading to the Bachelor of Science degree, and one of seventeen months' duration leading to a certificate. See "Admission Requirements" below.

The curriculum consists of classroom work devoted to courses in the biological, social, and clinical sciences providing a scientific, medical, and theoretical background. At the same time instruction is given in the techniques of creative and manual arts, activities of daily living, recreational, educational, and prevocational activities as they enter into the actual practice of occupational therapy. Correlated with theoretical classroom instruction, students observe treatment procedures in the occupational therapy units of several hospitals and institutions of the metropolitan area. A program of student clerkships in conjunction with the same institutions permits students to study treatment problems of specific diagnostic classifications as they are introduced in the medical lecture series, by means of the case study and laboratory method. In addition, there is a nine-month period of clinical practice in teaching hospitals under the supervision of the University.

The courses described in this announcement meet the requirements set forth by the American Occupational Therapy Association and by the Council on Medical Education and Hospitals of the American Medical Association, as published in their *Essentials of an Acceptable School of Occupational Therapy*, which regulates the standards by which schools are accredited. Graduates of both the degree course and the certificate course are eligible for the examination leading to admission to the Registry of Occupational Therapists maintained by the American Occupational Therapy Association. This examination is held throughout the country in February and June of each year. Admission to the registry is the certification of a therapist to practice.

ADMISSION REQUIREMENTS

Students will be admitted in September only. Applicants for admission must be between the ages of nineteen and thirty-five years. Both men and women are admitted to professional courses, depending upon individual qualifications. Demands made on the physical endurance and emotional stamina of the therapist require a record of good health. Applicants must be graduates of an approved high school or the equivalent, and must satisfy one of the following requirements:

- A. *Candidates for the Degree.* Students who have satisfactorily completed at least two years of work in a college approved by Columbia University may register for the degree course, to be completed in approximately two years—sixteen months of theoretical training and nine months of clinical practice. Specific admission requirements include:
 1. Sixty semester credits in liberal arts.
 2. The above should include the following minima:
 - a. Six semester credits in biology, (including coverage in zoology), chemistry, or physics.

- b. Three semester credits in psychology.
- c. Three semester credits in sociology.
3. A grade of C or better is required to receive transfer credit.

NOTE:—Suggested preprofessional curriculum is given on page 26.

B. *Candidates for the Certificate.* Students who hold a baccalaureate degree acceptable to Columbia University may register in the advanced standing course, to be completed in approximately seventeen months—eight months of theoretical training and nine months of clinical practice. Specific admission requirements include:

1. A Bachelor's degree. (See note below.)
2. Courses completed for the above degree should include the following minima:
 - a. Six semester credits in biology (including coverage in zoology), chemistry, or physics.
 - b. Six semester credits in psychology.
 - c. Three semester credits in sociology.

NOTE:—Graduates with accredited professional training in fields closely related to occupational therapy may be admitted to the advanced standing program.

ADMISSION PROCEDURE

Forms to be used in making application for admission may be obtained by writing to the Occupational Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. Applications should be filed several months in advance of the time at which students wish to begin their studies. Transcripts of all post-secondary school education should be forwarded by the registrars of the respective schools directly to the Director of Occupational Therapy. A personal interview will be arranged for each applicant.

ESTIMATED EXPENSES

<i>University Expenses (total course)</i>	<i>Degree Course</i>	<i>Advanced Standing Course</i>
Tuition	\$1,500	\$750
University fees	80	40
Clinical supervisory fee	20	10
Books, materials, equipment, uniforms	240	160
Health and hospital fee	50	25
Degree or certificate application	20	10
<i>Total</i>	<i>\$1,910</i>	<i>\$995</i>

Living Expenses (academic year)

Room	\$320-\$455
Board	500
Subway and bus fares (within program)	65
<i>Total</i>	<i>\$885-\$1,020</i>

Fees for materials and equipment in studio classes are payable at the time of registration and are subject to change in accord with market prices.

During clinical practice students spend approximately four months of the period in residence in hospitals where they receive full maintenance (room, board, and laundry). In some instances a maintenance arrangement is possible for a longer period of time.

There will be nominal transportation expenses for students in hospital affiliations outside the local area.

SUGGESTED PREPROFESSIONAL CURRICULUM

The following suggestions may be helpful to the student or guidance counsellor in planning the two-year college program prior to admission to the professional course leading to the Bachelor of Science Degree:

Six semester credits in each of the following fields; English composition, English literature, biology (including zoology), chemistry or physics, psychology, and sociology.

The remaining twenty-four credits might be chosen from such fields as speech, language, social and political sciences, economics.

Transfer credit is not usually offered for required courses in physical education nor for any courses leading to a specific profession.

COURSE OF STUDY IN OCCUPATIONAL THERAPY

An outline of the program of studies for each year of the course is given below. In the degree course, two years are spent on the campus in theoretical and technical study. To integrate the theoretical information, the student spends nine to twelve months of full-time clinical practice in mental, general, children's orthopedic, and tuberculosis services or hospitals. The summer periods are utilized for required clinical practice, thereby enabling the student to complete the full course in approximately two years.

Advanced standing students completing the course in seventeen months carry a program combining first-year and second-year courses during the one year spent on the campus, followed by nine to twelve months devoted to clinical practice.

DEGREE COURSE

Junior Year: Winter Session

<i>O.T. Theory 11</i>	Orientation to occupational therapy	2
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Psychology 33</i>	Clinical psychology	2
<i>Physiology 55</i>	Human physiology	2
<i>Neuroanatomy 95</i>	Anatomy of the nervous system	2
<i>Anatomy 155</i>	Human anatomy	3
<i>O.T. Fine Arts 11</i>	Needlecrafts	2
<i>O.T. Fine Arts 101</i>	Fundamentals of art and design	2
<i>O.T. Fine Arts 163</i>	Elementary woodwork	2
		<i>Total points</i> 18

Junior Year: Spring Session

<i>O.T. Theory 12</i>	Application in major medical fields	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Neurology 106</i>	Clinical neurology	2
<i>O.T. Fine Arts 14</i>	General crafts	3
<i>O.T. Fine Arts 26</i>	Pottery	2
<i>O.T. Fine Arts 30</i>	Elementary weaving	3
<i>O.T. Clerkship 2</i>	Case evaluations of psychiatric patients	2
	Elective in administration and techniques of recreation	2
		<i>Total points</i> 18

June, July, and August: Clinical practice in psychiatry

Senior Year: Winter Session

<i>O.T. Theory</i> 21	Departmental organization and administration	2
<i>Psychology</i> 45	Child development	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2
<i>Motor Disabilities</i> 121	Chronic motor disabilities and their treatment	2
<i>O.T. Fine Arts</i> 105	Interpretive design	2
<i>O.T. Fine Arts</i> 165	Advanced woodwork	2
<i>O.T. Clerkship</i> 3	Case evaluations of medical and surgical patients	2
	Elective	2
		<i>Total points</i> 18

Senior Year: Spring Session

<i>O.T. Theory</i> 24	Application to orthopedic and neurological disabilities	2
<i>Clinical Subjects</i> 102	Orthopedics, pediatrics, visual disabilities	2
<i>Exercise</i> 112	Therapeutic exercise	2
<i>Rehabilitation</i> 118	Agencies and techniques of rehabilitation	2
<i>O.T. Graphic Arts</i> 1R	Art of hand printing	2
<i>O.T. Fine Arts</i> 18	Leatherwork	2
<i>O.T. Fine Arts</i> 32	Advanced weaving	2
<i>O.T. Fine Arts</i> 168	Metalwork and jewelry	2
<i>O.T. Clerkship</i> 4	Case evaluations in physical and vocational rehabilitation	2
		<i>Total points</i> 18

July-January: Six months of clinical practice in specified areas of service

ADVANCED STANDING COURSE

Winter Session

<i>O.T. Theory</i> 11	Orientation to occupational therapy	2
<i>Physiology</i> 55	Basic human physiology	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2
<i>Anatomy</i> 155	Human anatomy	3
<i>O.T. Fine Arts</i> 15	General crafts and needlecrafts	3
<i>O.T. Fine Arts</i> 17	Leatherwork	1
<i>O.T. Fine Arts</i> 27	Pottery	2
<i>O.T. Fine Arts</i> 35	Weaving	2
		<i>Total points</i> 19

Spring Session

<i>O.T. Theory 12</i>	Application in major medical fields	2
<i>O.T. Theory 24</i>	Application to orthopedic and neurological disabilities	2
<i>Clinical Subjects 102</i>	Orthopedics, pediatrics, visual disabilities	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Neurology 106</i>	Clinical neurology	2
<i>Rehabilitation 118</i>	Agencies and techniques of rehabilitation	2
<i>O.T. Graphic Arts 1R</i>	Art of hand printing	1
<i>O.T. Fine Arts 166</i>	Woodwork	2
<i>O.T. Fine Arts 106</i>	Interpretive design	2
<i>O.T. Fine Arts 168</i>	Metal work and jewelry	2
<i>Total points</i>		19

July–April: Nine months of clinical practice in specified areas of service

Additional requirements for all advanced standing students:

1. Attendance at a weekly seminar during the Winter and Spring Sessions. Discussions in this seminar are concerned with advanced theory, principles, and practice of occupational therapy.
2. A paper to be written during the clinical practice period in an area of particular interest to the student and related to clinical experiences. This paper is to be submitted two months prior to the completion of clinical practice.

HOSPITALS AND AGENCIES AFFILIATED FOR CLINICAL PRACTICE

The nine to twelve months of clinical practice consist of full-time practical experience in well-organized and carefully supervised occupational therapy departments under the immediate direction of registered occupational therapists. Clinical practice shall be completed within one year following termination of academic work. During this period students attend lectures, clinics, staff meetings, and orientation in related treatment departments, conduct special case studies, and obtain practical experience in special therapeutics, such as recreational, educational, and prevocational activities.

CHILDREN'S HOSPITAL, Buffalo, N.Y.

Moir P. Tanner, *Director*

Jane E. Fogelsonger, O.T.R., *Director of Occupational Therapy*

CHILDREN'S REHABILITATION INSTITUTE, Reisterstown, Md.

Winthrop M. Phelps, M.D., *Medical Director*

Ruth W. Brunyate, O.T.R., *Director of Occupational Therapy*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N.Y.

Alvin J. Binkert, *Vice President and General Manager*

William Benham Snow, M.D., *Director, Clinical Physical Medicine*

(Mrs.) Helen P. White, O.T.R., *Chief Occupational Therapist*

COMMUNITY WORKSHOPS OF RHODE ISLAND, INC., Providence, R. I.

(Mrs.) Iris W. Booth, *Executive Director*

(Mrs.) Eleanor M. Black, O.T.R., *Chief Occupational Therapist*

CONNECTICUT STATE HOSPITAL, Middletown, Conn.

Edgar C. Yerbury, M.D., *Superintendent*

(Mrs.) Alice M. Rogers, O.T.R., *Supervisor of Occupational Therapy*

CURATIVE WORKSHOP, PHILADELPHIA SCHOOL OF OCCUPATIONAL THERAPY, Philadelphia, Pa.

Clare S. Spackman, O.T.R., *Director*

DISTRICT OF COLUMBIA HEALTH DEPARTMENT, BUREAU OF MATERNAL AND CHILD HEALTH, Washington, D. C.

Crippled Children's Clinic

Philip A. E. Stebbing, M.D., *Superintendent*

(Mrs.) Helen N. Cromartie, O.T.R., *Director of Occupational Therapy*

GERMANTOWN DISPENSARY AND HOSPITAL, Philadelphia, Pa.

W. T. Sherman Thorndike, M.D., *Managing Director*

Alice Letchworth, O.T.R., *Director of Occupational Therapy*

GRADUATE HOSPITAL OF THE UNIVERSITY OF PENNSYLVANIA, Philadelphia, Pa.

Edwin Taylor, *Director*

Clare S. Spackman, O.T.R., *Director of Occupational Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N. Y.

Willis C. Gorthy, *Director*

Edward E. Gordon, M.D., *Director of Medical Services*

Thelma L. Wellerson, O.T.R., *Director of Occupational Therapy*

KESSLER INSTITUTE FOR REHABILITATION, West Orange, N. J.

William K. Page, Jr., *Administrator*

Henry H. Kessler, M.D., *Medical Director*

Florence M. Stattel, O.T.R., *Chief Occupational Therapist*

MONTEFIORE HOSPITAL—WESTCHESTER DIVISION, Bedford Hills, N. Y.

Irving Gottsegen, *Assistant Director*

(Mrs.) Dorothy A. Sebesta, O.T.R., *Occupational Therapy Executive*

NEW YORK CITY DEPARTMENT OF HOSPITALS

Bruce B. Grynbaum, M.D., *Director of Rehabilitation and Physical Medicine*

Bellevue Hospital

Helen C. Mathias, O.T.R., *Supervisor of Occupational Therapy*

Goldwater Memorial Hospital

Frances E. Heess, O.T.R., *Supervisor of Occupational Therapy*

NEW YORK HOSPITAL, New York, N. Y.

Children's Clinic

S. Z. Levine, M.D., *Pediatrician in Chief*

Michi Yasumura, O.T.R., *Director of Pediatric Occupational Therapy*

Main Hospital

Henry N. Pratt, M.D., *Director*

(Mrs.) Claire Glasser, O.T.R., *Director of Occupational Therapy*

Payne Whitney Psychiatric Clinic

Oskar Diethelm, M.D., *Psychiatrist in Chief*

Mildred A. Spargo, O.T.R., *Director of Occupational Therapy*

NEW YORK STATE DEPARTMENT OF HEALTH, DIVISION OF TUBERCULOSIS CONTROL

Robert E. Plunkett, M.D., *Assistant Commissioner*

M. Arlene Mellinger, O.T.R., *Supervisor of Occupational Therapy*

Hermann M. Biggs Memorial Hospital, Ithaca, N. Y.

N. Stanley Lincoln, M.D., *Director*

Unabelle Emm, O.T.R., *Director of Occupational Therapy*

J. N. Adam Memorial Hospital, Perrysburg, N. Y.

Richard Nauen, M.D., *Director*

Janet McLaughlin, O.T.R., *Director of Occupational Therapy*

NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE

Virginia M. Scullin, O.T.R., *Director of Occupational Therapy*

Pilgrim State Hospital, Brentwood, N.Y.

Harry J. Worthing, M.D., *Director*

Helen L. Hedges, O.T.R., *Supervisor of Occupational Therapy*

New York State Psychiatric Institute and Hospital, New York, N.Y.

Lawrence C. Kolb, M.D., *Director*

(Mrs.) Alice R. Trei, O.T.R., *Senior Occupational Therapist*

NEW YORK STATE REHABILITATION HOSPITAL, West Haverstraw, N.Y.

Austin J. Canning, M.D., *Director*

Viola W. Svensson, O.T.R., *Director of Occupational Therapy*

NIAGARA SANATORIUM, Lockport, N.Y.

Arthur N. Aitken, M.D., *Director*

(Mrs.) Charlotte Briggs, R.N., O.T.R., *Director of Occupational Therapy*

NORWICH STATE HOSPITAL, Norwich, Conn.

Ronald H. Kettle, M.D., *Superintendent*

Harry Kromer, R.N., O.T.R., *Supervisor of Occupational Therapy*

REHABILITATION CENTER, LIBERTY MUTUAL INSURANCE CO., Boston, Mass.

Kenneth N. Palmer, *Manager*

Alexander P. Aitken, M.D., *Medical Director*

F. Elizabeth Shepard, O.T.R., *Director of Occupational Therapy*

U. S. ARMY HOSPITALS

Office of the Surgeon General, Washington, D.C.

Nell Wickliffe, Col., W.M.S.C.; *Chief, Women's Medical Specialist Corps*

Helen R. Sheehan, Lt. Col., W.M.S.C.; *Chief Occupational Therapist, Women's Medical Specialist Corps*

U. S. PUBLIC HEALTH SERVICE HOSPITAL, Boston, Mass.

Samuel J. Hall, M.D., *Medical Officer in Charge*

Margaret L. Blodgett, O.T.R., *Chief Occupational Therapist*

VETERANS ADMINISTRATION HOSPITALS

Central Office, Washington, D.C.

A.B.C. Knudson, M.D., *Chief, Physical Medicine and Rehabilitation Division*

Dorothy Rouse, O.T.R., *Chief, Occupational Therapy Section*

OUTLINE OF COURSES

For electives and additional courses open to students in occupational therapy, consult the announcements of Teachers College and the School of General Studies.

The University reserves the right to withdraw or modify these courses or to change the instructors as may be necessary.

DEGREE COURSE

Junior Year: Winter Session

***Occupational Therapy 11—Orientation to occupational therapy.** 2 pts. Professor Franciscus and special lecturers.

A general survey of the field. History and development of occupational therapy with special references to present uses and techniques. Supplementary reading and reports. Orientation visits to hospital services.

Pathology 31—Elementary studies in pathology. 1 pt. Dr. Gambino.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alterations of function resulting from these influences.

Psychology 33—Clinical psychology. 2 pts. Miss Hamwi.

Lectures describing the common mental maladjustments, which are explained in terms of general psychological principles. The social implications of abnormalities are emphasized.

Prerequisite: General psychology.

***Physiology 55—Human physiology.** 2 pts. Professor Di Salvo.

The dynamics of human processes. The interrelationships of the various bodily systems are stressed.

Neuroanatomy 95—Anatomy of the nervous system. 2 pts. Professor Sciarra.

The anatomy of the nervous system of man, including the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

***Anatomy 155—Human anatomy.** 3 pts. Professors Elftman and Noback.

Anatomy of the human body with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter being based on prepared dissection of the human body.

O.T. Fine Arts 11—Needlecrafts. 2 pts. Miss Brokaw and assistant.

The course includes instruction in clothing construction, hand sewing, and various forms of embroidery and allied needlecrafts (knitting, crocheting, and tatting). Care and use of the sewing machine, pattern alterations, the principles of upholstering, slip covering, and drapery making. Hospital projects and the use of needlecrafts for prevocational training are stressed.

Materials charge.

O.T. Fine Arts 163—Elementary woodwork. 2 pts. Mr. Lisenco.

This course is designed to orient the student to the fundamental principles of woodworking with hand tools. Careful workmanship and strong construction are stressed.

Materials charge.

O.T. Fine Arts 101—Fundamentals of art and design. 2 pts. Professor Arends.

A general survey course in the arts, which stresses the fundamentals of design as applied to crafts, commercial design, drawing, and painting. Museum and store visits. Lectures, readings, and discussions.

Materials charge.

Junior Year: Spring Session

***Occupational Therapy 12—Application in major medical fields.** 2 pts. Professor Franciscus and special lecturers.

This course stresses the principles and practice of occupational therapy techniques as applied to the

* Also an advanced standing course.

tuberculous, the mentally ill, and to patients with medical and surgical diagnoses. Supplementary readings and reports. Field visits.

***Psychiatry 102—Elementary psychiatry. 2 pts. Drs. Lesse and Amols.**

Etiology and symptomatology of the major and minor psychoses including the psychoneuroses and their treatment. Lectures with clinical demonstrations and field trips.

***Neurology 106—Clinical neurology. 2 pts. Dr. Greene.**

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

O.T. Fine Arts 14—General crafts. 1, 2, or 3 pts. Miss Brokaw and assistant.

This course includes many of the smaller crafts, such as: cord knotting, netting, braiding, rugmaking, chair seating, chip carving, and plastic fabrication. Emphasis is placed on basic techniques and their use in occupational therapy. Museum visit.

Materials charge.

***O.T. Fine Arts 26, 27—Pottery. 2 pts. Mr. Leary.**

An introduction to the possibilities and methods of using clay to create functional pottery with coils, with the potter's wheel, and by casting. Moldmaking, methods of decorating and glazing, and firing of kilns are studied for practical use in teaching.

Materials charge.

O.T. Fine Arts 30—Elementary weaving. 3 pts. Miss Brokaw and assistant.

Problems include the finger weaves and small appliances, such as cards, inkle looms, and rigid frames. Stress is laid on the mechanics and operation of loom weaving on a two-harness loom. A museum trip.

Materials charge.

O.T. Clerkship 2—Case evaluations of psychiatric patients. 2 pts. Miss Kilburn (coordinator).

Correlation of instruction in abnormal psychology, psychiatry, and occupational therapy theory by assigned patient work-ups in occupational therapy units. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion. Required written reports and field trips.

Senior Year: Winter Session

Occupational Therapy 21—Departmental organization and administration. 2 pts. Miss Kilburn and special lecturers.

Study of departmental organizations and administration in the various medical fields. The techniques of application of occupational therapy in geriatrics and pediatrics are included in this course. Supplementary reading, reports, and field trips.

Psychology 45—Child development. 2 pts. Dr. Blum.

The development of children from birth to maturity. Mental, motor, social, and emotional development at various periods of growth. The practical implications of the development and characteristics of children at various age levels with respect to the exceptional child.

***Clinical Subjects 101—General medicine and surgery. 2 pts. Drs. Wood and Voorhees.**

General medicine. Dr. Wood.

A survey of the more common diseases with emphasis on pulmonary tuberculosis and cardiac disorders. Lectures deal primarily with the relationship of pathological physiology to the development of signs and symptoms of disease.

General surgery. Dr. Voorhees.

A survey of those common diseases for which there is surgical emphasis.

***Kinesiology 105—Applied anatomy and kinesiology. 2 pts. Dr. Austlid and Miss Jameson.**

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement. Analysis of skills used in daily activities and in physical and occupational therapy. Lectures and laboratory.

* Also an advanced standing course.

Motor Disabilities 121—Chronic motor disabilities and their treatment. 2 pts. Professors Snow and Hoberman, Dr. Greene, and special lecturers.

A consideration of motor disabilities due to developmental abnormalities or disease or injury to the central nervous system. Techniques in the management of these patients with particular stress on the use of physical and occupational therapy in their rehabilitation.

***O.T. Fine Arts 105-106**—Interpretive design. 2 pts. Miss Brokaw and assistant.

A course in which the principles of design are applied to occupational therapy media, such as block printing, stenciling, silk screening, and cardboard construction. Museum visit.

Materials charge.

O.T. Fine Arts 165—Advanced woodwork. 2 pts. Mr. Lisenco.

This course is a continuation of *O.T. Fine Arts 163* and includes an introduction to the uses of power machinery.

Materials charge.

O.T. Clerkship 3—Case evaluations of medical and surgical patients. 2 pts. Miss Kilburn (coordinator).

Correlation of instruction in medicine, surgery, pediatrics, and occupational therapy theory by assigned patient work-ups in occupational therapy units and ward situations. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion. Written reports and field trips.

Senior Year: Spring Session

***Occupational Therapy 24**—Application to orthopedic and neurological disabilities. 2 pts. Misses Abbott and Wellerson.

Lecture and laboratory course in the application of techniques in treatment of physical injuries and diseases including orthopedic and neurological disabilities. Demonstration and return demonstration by the student.

***Clinical Subjects 102**—Orthopedics, pediatrics, and visual disabilities. 2 pts. Dr. Clark and instructors to be announced.

Orthopedics. Instructor to be announced.

Lectures and clinical presentations descriptive of orthopedic conditions, including discussion of related problems—social, medical, surgical, and rehabilitation.

Pediatrics. Instructor to be announced.

A study of the common diseases of childhood.

Visual disabilities. Dr. Clark.

A brief review of the anatomy and physiology of the eye, followed by a discussion of pathological conditions affecting the eye.

Exercise 112—Therapeutic exercise. 2 to 5 pts. Professors Snow, Darling, Hoberman, and Mrs. Weber, and associates.

The basic principles of therapeutic exercise including the physiology of exercise, muscle evaluation and reeducation, and tests and measurements. Lectures and laboratory.

***Rehabilitation 118**—Agencies and techniques of rehabilitation. 2 pts. Miss Kilburn (coordinator) and special lecturers.

A course designed to acquaint the student with community resources for the physical, psychological, social, and vocational rehabilitation of the handicapped. Legislation and organization of both public and private health agencies are studied. The course also includes orientation to auditory disabilities, their management and treatment.

***O.T. Graphic Arts 1R**—Art of hand printing. 1 or 2 pts. Professor Loos and Mr. Frey.

The fundamentals of printing and its application as a therapeutic exercise for handicapped persons. Instruction in type faces, proofreading, and presswork. The laboratory affords practical application of hand typesetting, including operation of hand and foot presses. Films, demonstrations, and field trips.

* Also an advanced standing course.

***O.T. Fine Arts 17-18—Leatherwork.** 1 or 2 pts. Miss Brokaw and assistant.

A course in hand leatherwork. Techniques of decoration and construction of small projects as used in occupational therapy.

Materials charge.

O.T. Fine Arts 32—Advanced weaving. 2 pts. Miss House.

Weaving on two-, four-, and eight-harness looms. Standard and special weaves. Making of patterns and drafts, including draft reading and tie-up. Experimenting with fibers and weaves with special emphasis on color, texture, and design. Trips to museums and other institutions.

Materials charge.

***O.T. Fine Arts 168—Metalwork and jewelry.** 2 pts. Mr. Lisenco.

A course in the basic techniques of hammered metal and jewelry. Elementary principles of mechanical drawing.

Materials charge.

O.T. Clerkship 4—Case evaluations in physical and vocational rehabilitation. 2 pts. Professor Franciscus (coordinator).

Correlation of instruction in orthopedics, neurology, and rehabilitation methods by assigned patient work-ups. A rotating clinical schedule is assigned each student. Each experience is followed by a group seminar.

Required written reports and field trips.

ADVANCED STANDING COURSE

Winter Session

All courses marked with an asterisk under Winter Session, Junior Year and Senior Year, must be taken. In addition:

O.T. Fine Arts 15—General crafts and needle crafts. 1, 2, or 3 pts. Miss Brokaw and assistant.

The general crafts section of this course includes cordage, plastics, wood carving, chair seating, and rug-making. The needlecraft section is designed to supplement the student's knowledge and to guide her in the application of all types of needlework to occupational therapy.

Materials charge.

O.T. Fine Arts 17-18—Leatherwork. See Spring Session, Senior Year.**O.T. Fine Arts 26-27—Pottery.** See Spring Session, Junior Year.**O.T. Fine Arts 35—Weaving.** 2 pts. Miss Brokaw and assistant.

Techniques of loom and small appliance weaving are covered with particular emphasis on the mechanics of weaving and the application to occupational therapy situations. Acquaintance with the basic weaves, textures, and simple patterns are gained through the use of various fibers.

Materials charge.

Spring Session

All courses marked with an asterisk under Spring Session, Junior Year and Senior Year, must be taken. In addition:

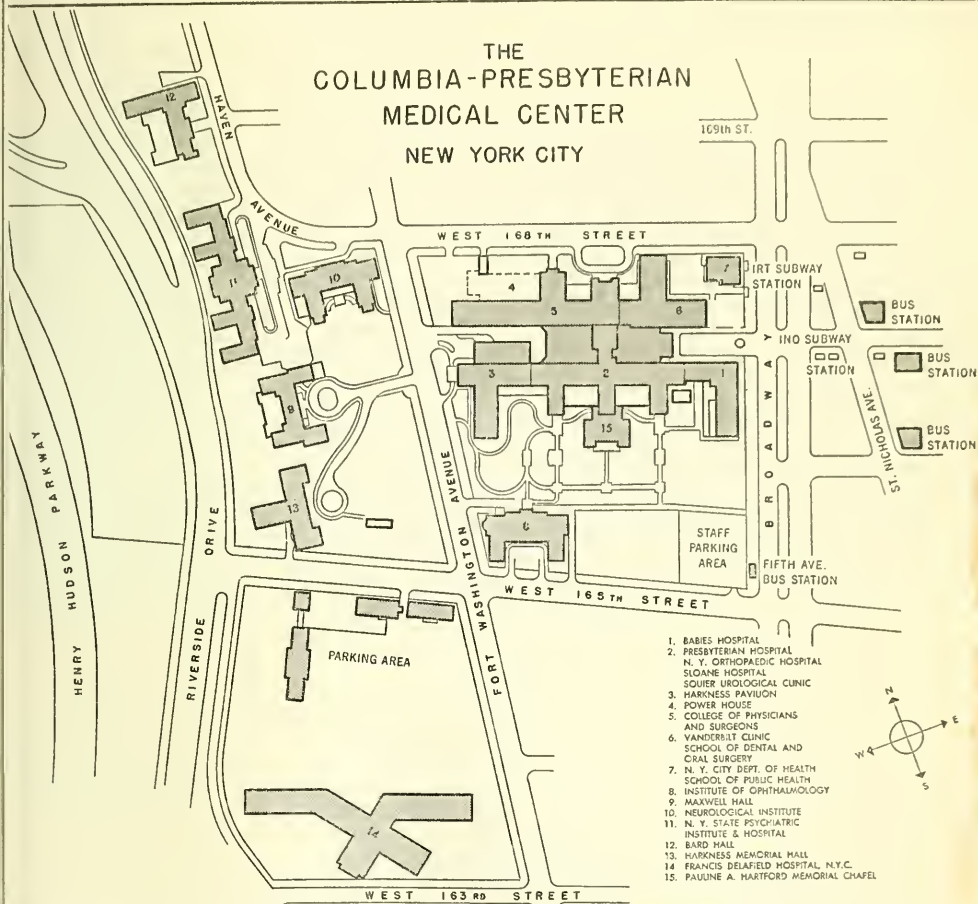
O.T. Fine Arts 105-106—Interpretive design. See Winter Session, Senior Year.**O.T. Fine Arts 166—Woodwork.** 2 pts. Mr. Lisenco.

A course designed to orient students in the fundamentals of woodworking and to develop a reasonable skill in the use of hand tools and finishing processes. An introduction to the use of power tools.

Materials charge.

* Also an advanced standing course.

THE COLUMBIA-PRESBYTERIAN MEDICAL CENTER NEW YORK CITY





NOT TO BE TAKEN FROM THE LIBRARY

Columbia University

BULLETIN OF INFORMATION

Fifty-sixth Series, No. 5

February 4, 1956

ANNOUNCEMENT OF COURSES FOR PHYSICAL THERAPISTS

OCCUPATIONAL THERAPISTS

COLLEGE OF PHYSICIANS AND SURGEONS

NOT TO BE TAKEN FROM THE LIBRARY



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FOR THE WINTER AND SPRING SESSIONS

1956-1957

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N. Y.

Columbia University Bulletin of Information

Fifty-sixth Series, No. 5

February 4, 1956

Issued at Columbia University, Morningside Heights, New York 27, N.Y., weekly from January for forty-six consecutive issues. Reentered as second-class matter August 15, 1952, at the Post Office at New York, N. Y., under the Act of August 24, 1912. Acceptance for mailing at a special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized.

The series includes the report of the President to the Trustees and the announcements of the several colleges and schools relating to the work of the next year. These are made as accurate as possible, but the right is reserved to make changes in detail as circumstances require. The current number of any of these announcements will be sent upon written application to the Office of University Admissions, 322 University Hall, Columbia University, New York 27, N. Y. Copies may be obtained in person from the Office of the Secretary, 213 Low Memorial Library.

C. U. P. 6,500—1956

INFORMATION

Application blanks and further information about the courses in this announcement may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. The office is open week-days 9 A.M. to 5 P.M.; Saturdays by appointment. Telephone: WAdsworth 3-2500, extension 7941.

WINTER SESSION

September 27, 1956, through January 31, 1957
Registration—September 24 through 26

SPRING SESSION

February 6, 1957, through May 30, 1957
Registration—February 4 through February 5

PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

This announcement describes two separate courses offered by Columbia University: Physical Therapy and Occupational Therapy. These courses are given at the Columbia-Presbyterian Medical Center under the auspices of the Department of Physical Medicine and Rehabilitation. The courses of study are approved by the Council on Medical Education and Hospitals of the American Medical Association and prepare the student to meet the qualifications for registration in either physical or occupational therapy. See pages 9-20 for physical therapy and pages 21-35 for occupational therapy.

ADMISSION

Prior to admission to professional courses in physical or occupational therapy, the applicant must have taken preprofessional subjects at an approved college of his choice to the extent of at least sixty semester credits. Should the student desire to complete this work at Columbia University, application should be made directly to Barnard College (undergraduate women), Columbia College (undergraduate men), or the School of General Studies (adult men and women).

Application for transfer to professional courses should be made on the official application form of the school in question and should be filed and accepted well in advance of the time the student expects to begin his studies. Acceptance of a student for admission is based on grounds of character and health as well as on the fulfillment of academic requirements. For further details on admission requirements and procedure see pages 11 and 23.

REGISTRATION

Before attending University courses, every student must register in person during the registration period which precedes each session. For the academic year 1956-57 the registration periods are:

Winter session: Monday, September 24, through Wednesday, September 26.

Spring session: Monday, February 4, through Tuesday, February 5.

The registration procedure is as follows:

1. The student reports to the Office of Physical and Occupational Therapy on the third floor of the College of Physicians and Surgeons, 630 West 168th Street, and fills out various forms giving information required for University records.

2. He has his program approved by the director.

3. He takes his completed forms to the Office of the Registrar and pays his fees in the Office of the Bursar.

The Office of the Registrar is open from 9 A.M. to 5 P.M. daily except Saturdays and holidays, and on Saturday from 9 A.M. to 12 M.

FEES

The University Statutes provide that tuition fees, the University fee, and laboratory deposits are payable semiannually in advance. As stated above, payment of fees is the last

step in the registration procedure; checks should be drawn to the order of Columbia University.

No reduction is made for late registration. Payment of fees after the last day of registration imposes automatically the statutory charge of \$3.00.

The following fees, prescribed by statute for courses in physical and occupational therapy, are subject to change at any time at the discretion of the Trustees:

University fee

For each winter or spring session or any part thereof, for students enrolled for:

From one to four points, inclusive	\$ 5.00
More than four points to nine points, inclusive	10.00
More than nine points	20.00

For any period not longer than a winter or spring session:

For persons either engaged in research or desiring to use other University facilities	20.00
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Tuition fee

For all courses except where a special fee is fixed, per point	25.00
With the proviso that the fee for a winter or spring session in the case of a student enrolled for fifteen or more points in physical therapy or in occupational therapy shall be	375.00

Clinical supervisory fee	10.00
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Student health and hospitalization fee

This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospitalization insurance and to pay part of the cost of the student health service. For all students, per academic year	25.00
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Fee for application

For any degree*	20.00
For any certificate*	10.00

Privileges

Late registration or late application for a degree or certificate or for deficiency or special examinations	3.00
Each deficiency or special examination	3.00
Renewal of application for any degree or certificate*	1.00

Rebates

The University fee, the fee for application for any degree or certificate, the student health and hospitalization fee, and the fee for a deficiency or special examination shall not be subject to rebate.

After the last day of the period provided for change of course, as announced

* An application for a degree or certificate, other than the several doctoral degrees, terminates at the next regular time for the issuance of diplomas subsequent to the date of filing; but under conditions prescribed by the respective faculties it may be subject to renewal for a fee of \$1.00 each time that a candidate chooses to come up for consideration, within a period not to exceed three years. Thereafter, with the filing of a second application, the regular fee is again payable—\$20 for a degree and \$10 for a certificate.

in the University Calendar, no tuition fee shall be returned for any course which the student may for any reason discontinue. Exception to this rule may be made only in cases of total withdrawal from the University, when a partial return of fees may be authorized by the Registrar.

When a rebate is allowed for the discontinuance of courses or withdrawal from the University, such rebate will be reckoned from the day upon which the Registrar receives written notice from the student.

A deposit for the use of lockers, keys, apparatus, material, and the like is required in certain courses.

Acceptance Fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the director that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will be retained by the University and, if the applicant does not register for the following academic year, it will not be returned, unless the University for any reason cancels the acceptance. If he registers in the courses for physical and occupational therapy in the class to which he has been admitted, the amount of the acceptance fee will be deducted from his tuition fees.

GENERAL REGULATIONS

RESIDENCE

All women students under twenty-one years of age, who are not living at home or with relatives, are required to secure approval of their residence from the Directors of Training, Office of Physical and Occupational Therapy, College of Physicians and Surgeons. Information concerning desirable accommodations may be obtained from this office (see also pages 4-5).

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

The privileges of the University are not available to any student until he has completed his registration. Since, under the University statutes, payment of fees is a part of registration, no student's registration is complete until his fees have been paid. No student is permitted to attend any University course for which he is not officially registered, nor may any student register after the stated period unless he obtains the written consent of the proper director.

ABSENCES

Students are held accountable for absences incurred owing to late enrollment. It is a student's duty to attend punctually each class or laboratory exercise in each course. For credit toward the certificate and degree, regular attendance is required in addition to the proficiency attested by classwork and examination.

4 • RESIDENCE HALLS

Students whose religious duties conflict at any time with academic requirements should apply to the proper director for an equitable solution.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved powers of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper director. Students withdrawing are required to notify the Registrar in writing at once.

The director may, for reasons of weight, grant a leave of absence to a student in good standing.

GRADES AND CREDITS

The student's performance in a course is reported according to the following grades: A, excellent; B, good; C, fair; and F, failure. A, B, and C are passing grades counting for credit toward the degree or certificate and accepted as the basis for advancement to a next higher course. A student who does not receive a mark of C or above in a prescribed course must repeat that course.

The mark MU is not a grade and simply implies that in the opinion of the instructor the student may be given the privilege of taking a deficiency examination. When this mark is given at the end of the winter session, it does not necessarily mean that the student may not pursue his courses in the spring session, but that he will get no credit for the course in question until he has received a definite passing grade.

LIVING ACCOMMODATIONS

The residence halls of the University are located on or immediately adjacent to the campus and afford easy access to libraries and classrooms as well as comfortable accommodations in an environment conducive to academic work. They serve also as a center of campus life and provide companionship for students of like interests. The University, therefore, desires its students to live whenever possible in the residence halls.

Within several of the residence halls are dining rooms maintained for all students and faculty members of the University.

Assignment of rooms is made on the session basis. Room payments are due at the beginning of each session, but in case of need other arrangements can be made.

Students coming from out of town to attend evening classes or those wishing to stay overnight at Columbia may secure accommodations by applying to the Livingston Hall Office (for men) or the Johnson Hall Office (for women).

Residence halls announcements and application blanks for rooms may be obtained (for men) from the Men's Residence Halls Office, 125 Livingston Hall, Columbia University, New York 27; (for women) from the Johnson Hall Office, 411 West 116th Street, New York 27. The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

RESIDENCE FOR MEN

There are four University residence halls, on South Quadrangle, which have accommodations for approximately 1,670 men. Hartley Hall, Livingston Hall, and the lower floors of John Jay Hall are reserved for students in Columbia College; Fernald Hall, for law and graduate students; and the upper floors of John Jay Hall, for graduate and professional school students. Rates for the academic year range from \$200 to \$410. There are a few rooms available at \$160 which are assigned only with the approval of the director of the University Placement Bureau. Application for these accommodations should be filed with the Men's Residence Halls Office, together with the statement that application has been made to the director of the University Placement Bureau for his approval. These lowest-priced rooms will not be assigned to students holding scholarships amounting to \$400 or more.

All rates are subject to revision if costs change greatly.

The main dining room is on the first floor of John Jay Hall. The lower John Jay Lobby leads to the Lion's Den, a grillroom (open to both men and women students) with facilities for late breakfast, lunch, and dinner.

RESIDENCE FOR WOMEN

Johnson Hall is provided by the University as a residence for women students in the graduate and professional schools. A limited number of rooms are assigned to full-time undergraduate students who are matriculated for a degree. The Hall was erected and particularly designed for the comfort and convenience of women students. With its various social rooms, attractive dining room, and comfortable bedrooms, it offers pleasant conditions for University life. The rates for rooms range from \$320 to \$455 for the academic year. There are a limited number of suites (two adjoining rooms) from \$300-\$390 per person. The rate for two meals a day, breakfast and dinner, is \$350 for the academic year. All rates are subject to change if costs increase greatly. Residents of Johnson Hall are required to take breakfast and dinner in the dining room of Johnson Hall.

OFF-CAMPUS ACCOMMODATIONS

Columbia University maintains a registry of off-campus accommodations, where the addresses of available furnished rooms in the neighborhood may be obtained. It is not possible to obtain listings by mail as these accommodations are for immediate rental; moreover, it is advisable that rooms be engaged only after personal inspection. The registry is for the use of faculty, staff, and students of the University, and each applicant must show a letter of admission or some other official Columbia correspondence to be eligible for this service. There is no charge to either the student or the landlord and all financial arrangements must be concluded between the applicant and the landlord. The registry is located in Livingston Hall.

SERVICES AND FACILITIES

STUDENT HEALTH SERVICE

A physical examination (including X-ray and tuberculin tests) will be given each student in the professional courses during the first session of attendance. Further physical examinations will be given during the training period, whenever it is deemed advisable.

Students requiring hospitalization will be taken care of either in the wards of the Medical Center, or elsewhere, under a hospitalization insurance policy.

Daily office hours are held for sick students by the Student Health Service, Room 2-200, Vanderbilt Clinic. Members of the Health Service are available to attend ill students if they live near the Medical Center.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge as a center for the religious and social activities of the students. On the main and upper floors, reached by the campus entrance, are the offices of the Chaplain and his staff and of the three religious counselors. These floors also contain an auditorium, a lounge, meeting room, kitchen, and other facilities.

UNIVERSITY LIBRARIES

The physical and occupational therapy collection of reference books, periodicals, and pamphlets is housed in the Medical Library, which occupies parts of the three lower floors in the College of Physicians and Surgeons building. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works, through interlibrary loans, and through its unique bibliographic service.

The library contains approximately two hundred thousand volumes of books and journals. More than twenty-three hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the schools of Medicine, Dentistry, Nursing, Public Health, and Administrative Medicine, Physical and Occupational Therapy, and in the hospitals of the Medical Center.

The libraries on Morningside Heights, containing more than two million volumes, are open to all students of physical and occupational therapy. The main collection is housed in Butler Library, and special and departmental collections are located in various other buildings on the campus. They include collections on biology, education, engineering, psychology, sociology, and other subjects related to physical and occupational therapy and supplement the special collections available in the College of Physicians and Surgeons.

Leaflets describing the collections and services of the University Libraries are available in any of the library reading rooms. The Medical Library and all other libraries post their hours of opening and closing.

THE INSTITUTE FOR THE CRIPPLED AND DISABLED

The Institute for the Crippled and Disabled, located at 400 First Avenue, is affiliated with Columbia University and offers broad clinical and educational facilities for the training of physical therapy and occupational therapy students. An outstanding collection of

reference books, periodicals, and pamphlets concerning the handicapped, their problems, and their rehabilitation is housed here, available to students in occupational and physical therapy at all times. An occupational therapy teaching unit, established at the Institute, is used for instruction and houses a skills library. Special equipment for the instruction of kinesiology and for the instruction and laboratory practice of massage and exercise is provided for the students.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 A.M. to 5:30 P.M.; Saturdays, 8:45 A.M. to 1:30 P.M.

STUDENT ACTIVITIES

The Physical Therapy and Occupational Therapy Clubs are the student organizations in which activities of a recreational, social, and professional nature are carried on. Within these clubs each class of students has its own organization and officers with representatives on the University Student Council.

The Columbia University Student Council, composed of elected representatives from the students of the several schools and faculties of the University, represents the students in matters affecting the student body as a whole, with the object of promoting cooperation and understanding among the students, faculty, and administration.

At the request of the student group and with the approval of the administration, the occupational therapy student body functions under an honor system. By means of an honor board, with representation from each class, the students are given increased self-responsibility for their conduct in the observance of school regulations.

Students are encouraged to utilize the educational and cultural opportunities offered throughout the University campus and elsewhere in New York City.

Graduates of the physical and occupational therapy programs have alumni associations, which in turn are eligible for group membership in the Alumni Federation of Columbia University.

STUDENT AID

LOAN FUNDS

Loan funds are provided in a limited amount for the assistance of students, but it is the general policy to grant loans only to students who have satisfactorily completed at least one session of residence at the University. Application is made on a blank which may be obtained from the Office of the Bursar, 310 University Hall. Applications for loans for the winter session should be filed by September 15; for the spring session, by January 15.

EMPLOYMENT

The University Placement Bureau is that department of the University through which men and women students and graduates are referred to suitable positions during their

attendance at the University and after graduation. A booklet describing the facilities of the Placement Bureau and the more general types of employment opportunities available will be mailed upon request. Communications should be addressed to the Director of the University Placement Bureau, Columbia University, New York 27, N.Y.

The Physical and Occupational Therapy Office maintains a listing of positions throughout the country available to graduate therapists. Current graduates and alumni are encouraged to refer to the office for these positions.

POSTGRADUATE COURSE IN CEREBRAL PALSY

Cerebral Palsy 101 (fall term) and *r101* (spring term). Nine weeks, full time. Fees: \$200 plus \$10 University fee. Eight points of academic credit for students with suitable prerequisites. For qualified occupational and physical therapists with working experience. Other ancillary medical personnel may be admitted on an individual basis.

Varied aspects of the problem are presented during three weeks of lectures and demonstrations by approximately thirty instructors. During the next six weeks, four days a week of clinical experience are supplemented by one day of discussion and review guided by the course supervisors. The course endeavors to provide the student with a sound neurological background as a basis for critical thinking.

This course is sponsored by United Cerebral Palsy Associations, Incorporated. A listing of sources for scholarship aid is available. Further information, including dates, and application forms are available from the Office of the Dean, College of Physicians and Surgeons, 630 West 168th Street, New York 32, New York.

PHYSICAL THERAPY

ADMINISTRATIVE OFFICERS

- GRAYSON KIRK, Ph.D., LL.D. *President of the University*
- JOHN A. KROUT, Ph.D., L.H.D., LL.D. . . . *Vice President and Provost of the University*
- WILLARD C. RAPPLEYE, A.M., M.D., Sc.D., Med.Sc.D. . . . *Vice President in Charge of Medical Affairs; Dean, Faculty of Medicine*
- ROBERT C. DARLING, M.D. *Professor of Physical Medicine and Rehabilitation; Executive Officer, Department of Physical Medicine and Rehabilitation*
- WILLIAM BENHAM SNOW, M.D. . . . *Professor of Physical Medicine; Medical Director, Courses in Physical and Occupational Therapy*
- MARY E. CALLAHAN, A.M. *Assistant Professor and Director, Training for Physical Therapists*
- GLADYS L. JAMESON, A.M. *Instructor and Associate Director, Training for Physical Therapists*

OFFICERS OF INSTRUCTION

- MARGUERITE ABBOTT, O.T.R., *Instructor in Occupational Therapy; B.S., Tufts; Graduate, Boston School of Occupational Therapy*
- WILLIAM AMOLS, *Associate in Neurology; A.B., M.D., New York University*
- EDITH H. BROKAW, O.T.R., *Associate in Occupational Therapy; Graduate, Philadelphia School of Occupational Therapy*
- MARY E. CALLAHAN, *Assistant Professor of Physical Therapy; B.S., New York University; A.M., Columbia; Graduate, Clinton Hospital School of Nursing; Certificate in Physical Therapy, Posse Institute*
- MARY A. COVER, *Instructor in Physical Therapy; Graduate, Sargent College; Certificate in Physical Therapy, Walter Reed Hospital*
- FREDERICK S. CRAIG, *Instructor in Orthopedic Surgery; M.D., Buffalo*
- ROBERT C. DARLING, *Professor of Physical Medicine and Rehabilitation; A.B., M.D., Harvard*
- HERBERT O. ELFTMAN, *Associate Professor of Anatomy; A.B., A.M., California; Ph.D., Columbia*
- MARIE LOUISE FRANCISCUS, O.T.R., *Assistant Professor of Occupational Therapy; Director, Training for Occupational Therapists; B.S., Ohio State; Graduate, Philadelphia School of Occupational Therapy*
- LEONARD J. GOLDWATER, *Professor of Occupational Medicine; A.B., Michigan; M.D., Med. Sc.D., New York University; M.S., Columbia*
- JUSTIN L. GREENE, *Instructor in Neurology; A.B., Columbia; M.D., Paris*
- A. DAVID GUREWITSCH, *Assistant Clinical Professor of Physical Medicine and Rehabilitation; M.D., Basel*
- EDITH HANSEN, *Instructor in Physical Therapy; Graduate, General Lutheran Hospital School of Nursing*
- MORTON HOBERMAN, *Assistant Clinical Professor of Physical Medicine and Rehabilitation; B.S., New York University; M.B., M.D., Wayne*
- WILLIAM A. HORWITZ, *Associate Professor of Clinical Psychiatry; M.D., Albany Medical College; Sc.D., Med.Sc.D., Columbia*
- GLADYS L. JAMESON, *Instructor in Physical Therapy; A.B., Syracuse; A.M., New York University; Certificate in Physical Therapy, Columbia*
- VIRGINIA T. KILBURN, O.T.R., *Instructor in Occupational Therapy; Associate Director, Training for Occupational Therapists; A.B., Wellesley; Certificate in Occupational Therapy, Columbia*
- MARION D. LAIRD, *Instructor in Obstetrics and Gynecology; B.A., Queens, Ontario; M.D., Toronto*
- STANLEY LESSE, *Instructor in Neurology; A.B., Pennsylvania; M.D., Jefferson Medical College*
- MILOS J. LOTA, *Instructor in Physical Medicine and Rehabilitation; M.D., Masaryk University*
- HARRISON L. McLAUGHLIN, *Professor of Clinical Orthopedic Surgery; M.D., Queens University Medical College*
- J. LOWRY MILLER, *Associate Clinical Professor of Dermatology; A.B., North Carolina; M.D., Pennsylvania*
- CHARLES R. NOBACK, *Associate Professor of Anatomy; B.S., Cornell; M.S., New York University; Ph.D., Minnesota*
- ALEXANDER D. PAPAS, *Instructor in Surgery; A.B., M.D., Columbia*

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ISABEL ROBINAULT, O.T.R., *Instructor in Occupational Therapy*; A.B., Barnard; A.M., New York University; Certificate in Occupational Therapy, New York University

BERTRAM J. SANGER, *Associate Clinical Professor of Medicine*; A.B., Texas; M.D., Johns Hopkins

KATHERINE TIMOTEO SAN JULIAN, *Associate in Physical Therapy*; A.B., New York University; Certificate in Physical Therapy, Columbia

DANIEL SCIARRA, *Assistant Professor of Neurology*; A.B., M.D., Harvard

FREDERICK M. SMITH, *Associate Professor of Clinical Orthopedic Surgery*; A.B., A.M., Yale; M.D., Med.Sc.D., Columbia

WILLIAM BENHAM SNOW, *Professor of Physical Medicine*; M.D., Long Island College of Medicine

HELEN G. SPENCER, *Instructor in Physical Therapy*; A.B., Wellesley; Certificate in Physical Therapy, Hospital for Special Surgery

BLANCHE TALMUD, *Instructor in Physical Therapy*; B.S., Certificate in Physical Therapy, New York University

SHIH-CHUN WANG, *Professor of Physiology*; B.S., Yenching; M.D., Peiping Union Medical College; Ph.D., Northwestern

SONYA E. WEBER, *Instructor in Physical Medicine and Rehabilitation*; A.B., Vienna; Sc.D., Eastern Reserve

VIRGINIA N. WILKING, *Instructor in Psychiatry*; A.B., Bryn Mawr; M.D., Columbia

JOHN A. WOOD, *Assistant in Medicine*; A.B., M.D., Harvard

SPECIAL LECTURERS

ARTHUR ABRAMSON, Chief, Physical Medicine Rehabilitation Service, Bronx Veterans Administration Hospital; B.S., M.D., C.M., McGill

OLAV AUSTLID, Acting Director, Physical Medicine, Hospital for Special Surgery; M.D., Vienna

SIGNE BRUNNSTROM, Consultant in Amputee Training, Institute of Physical Medicine and Rehabilitation; B.S., Uppsala College, Sweden; Physical Therapy, Royal Gymnastic Central Institute, Sweden; A.M., New York University

ELIZABETH M. CARRICK, Instructor, New York School of Social Work; B.S., Ohio State; A.M., New York School of Social Work

JON EISENSON, Lecturer in Otolaryngology; A.B., College of the City of New York; A.M., Ph.D., Columbia

MINNIE M. GENN, Pediatric Psychiatric Clinic; B.S., Boston University, Ed.D., Harvard

CHARLES R. GOLDSTINE, Director, Prosthetic and Orthopedic Appliance Shops, Institute for the Crippled and Disabled

MILDRED HARRIS, A.B., Vassar; A.M., Columbia; Certificate in Physical Therapy, Hospital for Special Surgery

EDWARD F. HARTUNG, Assistant Clinical Professor of Medicine, New York University Post-Graduate Medical School; A.B., M.D., Columbia

JETTA HENDIN, Physical Therapist, Columbia-Presbyterian Medical Center; B.S., Manitoba; Certificate in Physical Therapy, Hospital for Special Surgery

SHULAMITH KASTEIN, Speech Pathologist, Department of Otolaryngology, Columbia-Presbyterian Medical Center; Diploma, Vienna

HELEN HENNESSY, Orthopedic Consultant and Supervisor of Physical Therapy, Visiting Nurse Service of New York; Graduate, Yale School of Nursing; B.S., Columbia; Certificate in Physical Therapy, Hospital for the Ruptured and Crippled

HENRY KESSLER, Director, The Kessler Institute for Rehabilitation; A.B., M.D., Cornell; A.M., Ph.D., Columbia

LUTIE C. LEAVELL, Associate Professor, Nursing Education, Teachers College; B.S., A.M., Columbia

JACOB MEISLIN, Chief, Physical Medicine and Rehabilitation, Franklin Delano Roosevelt Hospital; B.S., College of the City of New York; M.D., Lausanne

JOSEPH E. SNYDER, Assistant Vice President, Presbyterian Hospital; A.B., Nebraska; M.D., Pennsylvania

ARTHUR B. VOORHEES, JR., Chief Resident in Surgery, Presbyterian Hospital; M.D., Columbia

PHYSICAL THERAPY

Physical therapy is the treatment of disease and injury by the use of such agents as sunshine, water, exercise, massage, mechanical forces, and electricity. Functional rehabilitation of persons injured by disease or accident is a pressing medical need; the skillful application of physical therapy following injury will do much to shorten the time of disability. The ultimate aim of any treatment is the maximal rehabilitation and adjustment of the patient. The success of this type of treatment is dependent upon the therapist's knowledge, care, and precision in the administration of the intelligent medical prescription.

The course of study here described gives the student a basic knowledge of the normal functions of the human body and of the pathology of those diseases and injuries in which physical therapy can be helpful in the optimum rehabilitation of the patient. In addition to theoretical classroom instruction and demonstrations, students observe treatment procedures and receive practice in teaching hospitals under University supervision.

The curriculum is planned to serve the educational needs of students working towards the Bachelor of Science degree or towards the Certificate of Training in Physical Therapy.

The Bachelor of Science degree is offered upon satisfactory completion of the full Junior and Senior program which includes clinical experience. This program is superimposed upon two years of college work in liberal arts with a minimum of sixty semester credits including the proper science prerequisites.

The Certificate of Training in Physical Therapy is offered upon satisfactory completion of the programs (academic and clinical) prescribed for students of advanced standing. This program is superimposed upon the background of one of the following:

1. Bachelor's degree from an accredited college or university
2. Graduation from a nationally accredited professional school of nursing

Graduates of either program will have had a minimum of four years' post-secondary education study including special professional courses in physical therapy.

Minimum standards for approved schools of physical therapy are set by the American Medical Association through the Council on Medical Education and Hospitals.

Graduates of either program are eligible for admission to the examination of the American Registry of Physical Therapists and for membership in the American Physical Therapy Association.

The law in New York State requires that a student who plans to practice as a physical therapist must pass the state qualifying examination. A student who expects to practice in another area of the country should become familiar with local requirements, so that any required examination may be taken as soon as possible after graduation.

ADMISSION REQUIREMENTS

Students are admitted in September only. Admission to the professional courses is open to qualified students from nineteen to thirty-five years of age. In subjects taken at other institutions for which transfer credit is allowed, a grade of C or better is required. The ability to swim is required for both programs of study in the second semester. Students unable to swim at the time of admission shall be responsible for securing instruction for themselves before the second semester. Applicants for admission must be graduates of approved high schools or the equivalent, and then must satisfy *one* of the following requirements:

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Candidates for the degree course of study:

Two years or sixty semester credits of work in a college approved by Columbia University. Specific admission requirements include:

Six semester credits in biological science

Four semester credits in physics and/or chemistry (preferably both)

Six semester credits in psychology

Candidates for the advanced standing course of study:

- (a) Graduation from an approved college with at least a Bachelor of Science or Bachelor of Arts degree with science requirements as follows:

Eight semester credits in biological science

Six semester credits in physics and/or chemistry (preferably both)

Ten semester credits in social science (of which six must be in psychology)

Or

- (b) Graduation from a nationally accredited professional school of nursing with required courses in the biological and physical sciences. Courses in the humanities and social sciences are a desirable background.

ADMISSION PROCEDURE

Forms to be used in making application for admission may be obtained by writing to the Physical Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. Such applications should be filed several months in advance of the time at which students wish to begin their studies.

Transcripts of all post-secondary education should be forwarded by the registrar of the respective schools directly to the Director of Training for Physical Therapists.

A personal interview will be arranged for each applicant.

ESTIMATED EXPENSES

<i>University Expenses (total program)</i>	<i>Degree Program</i>	<i>Advanced Standing Program</i>
Tuition	\$1,500	\$750
University fees	80	40
Clinical supervisory fee	20	10
Books, materials, equipment, uniforms	105	90
Health and hospital fee	50	25
Degree or certificate application	20	10
<i>Total</i>	<i>\$1,775</i>	<i>\$925</i>

Living Expenses (academic year)

Room	\$320-\$455
Board	500
Subway and bus fares (within program)	65
<i>Total</i>	<i>\$885-\$1,020</i>

During summer clinical practice periods the students will have a variable amount of living expenses dependent upon the accommodations provided by the individual medical institution to which they are assigned.

PROGRAMS OF STUDY IN PHYSICAL THERAPY

DEGREE PROGRAM

Junior Year: Winter Session

<i>Anatomy</i> 155	Human anatomy	3
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2
<i>Massage</i> 3	Essentials of massage	2
<i>Neuroanatomy</i> 95	Anatomy of the nervous system	2
<i>Orientation</i> 39	Professional ethics and institutional organization	1
<i>Physics</i> 111	Physics applied to physical medicine	2
<i>Physiology</i> 157	Aspects of human physiology	2
<i>Psychology</i> 41	Child development	2
		<i>Total points</i> 16

Junior Year: Spring Session

<i>Clinical Experience</i> 2	Introduction to clinical experience	2
<i>Exercise</i> 112	Therapeutic exercise, including underwater techniques	5
<i>Hydrotherapy</i> 18	Theory and practice, including neuropsychiatric techniques	1
<i>Neurology</i> 106	Clinical neurology	2
<i>Orthopedics</i> 136	Survey of orthopedics	2
<i>Psychiatry</i> 102	Elementary psychiatry	3
<i>Thermotherapy</i> 10	Heat application and radiation	1
	Elective in administration and techniques of recreation	2
		<i>Total points</i> 18

June, July, and September: Clinical observation, instruction, and supervised practice

Senior Year: Winter Session

<i>Clinical Experience</i> 3	Supervised clinical practice	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>Electrotherapy</i> 13	Theory and practice of electrotherapy	2
<i>Nursing Procedures</i> 17	Simple bandaging, dressings, asepsis, and other techniques	1
<i>Orientation</i> 41	Seminar on social work and human behavior	1
<i>Pathology</i> 31	Elementary studies in pathology	1
<i>Psychiatry</i> 101	Psychosomatic aspects of physical medicine	1
<i>Electives</i>	Chosen with the approval of the adviser	5
		<i>Total points</i> 15

Senior Year: Spring Session

<i>Biology 253b (T.C.)</i>	Anatomy and physiology	1
<i>Clinical Experience 4</i>	Supervised clinical practice (continued)	2
<i>Clinical Applications 130</i>	Survey of medical and surgical conditions in relation to physical medicine	2
<i>Orientation 16</i>	Seminar	2
<i>Physical Therapy 116</i>	Practical application of physical therapy	2
<i>Rehabilitation 150</i>	Rehabilitation techniques and problems of the handicapped	2
<i>Speech 162</i>	Principles and practice of speech science	2
<i>Electives</i>		2
		<i>Total points</i> 15

ADVANCED STANDING PROGRAM

Winter Session

<i>Anatomy 155</i>	Human anatomy	3
<i>Clinical Subjects 101</i>	General medicine and surgery	2
<i>Electrotherapy 13</i>	Theory and practice of electrotherapy	2
<i>Kinesiology 105</i>	Applied anatomy and kinesiology	2
<i>Massage 3</i>	Essentials of massage	2
<i>Neuroanatomy 95</i>	Anatomy of the nervous system	2
<i>Nursing Procedures 17</i>	Simple bandaging, dressings, asepsis, and other techniques	1
<i>Orientation 39</i>	Professional ethics and institutional organization	1
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Physics 111</i>	Physics applied to physical medicine	2
<i>Physiology 157</i>	Aspects of human physiology	2
		<i>Total points</i> 20

Spring Session

<i>Clinical Applications 130</i>	Survey of medical and surgical conditions in relation to physical medicine	2
<i>Exercise 112</i>	Therapeutic exercise including underwater techniques	5
<i>Hydrotherapy 18</i>	Theory and practice, including neuropsychiatric techniques	1
<i>Neurology 106</i>	Clinical neurology	2
<i>Orthopedics 136</i>	Survey of orthopedics	2
<i>Orientation 16</i>	Seminar	1
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Rehabilitation 150</i>	Rehabilitation techniques and problems of the handicapped	2
<i>Thermotherapy 10</i>	Heat application and radiation	1
		<i>Total points</i> 18

June, July, August, and September: Clinical instruction and supervised experience

HOSPITALS AFFILIATED FOR CLINICAL PRACTICE

Attendance in the hospitals and clinics listed below is concurrent with regular classroom work in the winter and spring sessions. In addition, all students are required to spend a period during the summer in full-time clinical practice. During this period students attend lectures, clinics, and staff meetings, receive supervised practical experience in physical therapy, and are introduced to related treatment departments.

BLYTHEDALE, Valhalla, N.Y.

Jacob Reingold, *Executive Director*
A. David Gurewitsch, M.D., *Medical Director*
Irmgard Bartenieff, *Coordinator of Therapy*
Carroll Wardlaw, *Head Physical Therapist*

BRONX VETERANS HOSPITAL, New York, N.Y.

Alfred Ebel, M.D., *Chief, Physical Medicine and Rehabilitation Service*
Morris Vogel, *Chief of Physical Therapy*

BURKE FOUNDATION CONVALESCENT HOME, White Plains, N.Y.

George Brush, *Superintendent*
Edward J. Lorenze, M.D., *Medical Director*
Anthony De Rosa, *Chief Physical Therapist*

CHILDREN'S COUNTRY HOME, Westfield, N. J.

Mrs. Harry A. Kniffen, *President*
Frieda R. Voorhies, *Chief, Physical Therapy Department*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N.Y.

Alvin J. Binkert, *Vice President and General Manager*
William Benham Snow, M.D., *Director, Clinical Physical Medicine*

Presbyterian Hospital
Edith Hansen, *Head Physical Therapist*

Neurological Institute
Mary A. Cover, *Head Physical Therapist*

HOSPITAL FOR CHRONIC ILLNESS, Rocky Hill, Conn.

A. Kara Rossiliano, M.D., *Acting Chief, Physical Medicine and Rehabilitation*
Herbert Jones, *Supervisor of Physical Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N.Y.

Willis C. Gorthy, *Director*
A. David Gurewitsch, *Director of Medical Services*
Blanche Talmud, *Supervising Therapist*

INSTITUTE OF PHYSICAL MEDICINE AND REHABILITATION, New York University-Bellevue Medical Center, New York, N.Y.

Howard Rusk, M.D., *Director*
Donald A. Covalt, M.D., *Clinical Director*
Jack M. Hofkosh, *Supervisor, Physical Therapy Department*

JEWISH CHRONIC DISEASE HOSPITAL, Brooklyn, N.Y.

Joseph B. Rogoff, *Director, Physical Medicine and Rehabilitation*
Murray Chrystal, *Administrative Assistant and Chief Physical Therapist*

KESSLER INSTITUTE FOR REHABILITATION, West Orange, N.J.

William K. Page, Jr., *Administrator*
Henry H. Kessler, M.D., *Medical Director*
Ruth Dickinson, *Director of Physical Therapy*

MARINE HOSPITAL, UNITED STATES PUBLIC HEALTH SERVICE, New York, N.Y.

Alfred J. Rucci, M.D., *Chief of Surgery*
Esther Anderson, *Chief Physical Therapist*

MIDDLESEX REHABILITATION AND POLIO HOSPITAL, North Brunswick, N. J.

Maurice Dorsen, Ph.D., *Administrator*
Norman Reitman, M.D., *Chief of Medical Staff*
Michael R. Sofranko, *Chief Physical Therapist*

MORRIS MEMORIAL HOSPITAL, MILTON, W. Va.

George I. Mattix, *Administrator*
(Mrs.) Georgia Traub, *Chief Physical Therapist*

NEW YORK HOSPITAL, New York, N.Y.

Olaf Austlid, M.D., *Acting Director of Physical Medicine*
Margaret Valentine Rennison, *Supervisor of Physical Therapy*

NEW YORK REGIONAL OFFICE, VETERANS ADMINISTRATION, RAY CLINICS, New York, N.Y.

Irving Tepperberg, M.D., *Chief, Physical Medicine Rehabilitation Service*
Elmer Marjay, M.D., *Chief, Physical Medicine Group*
G. DiNubila, *Chief Physical Therapist*

NEW YORK STATE REHABILITATION HOSPITAL, West Haverstraw, N.Y.

Austin J. Canning, M.D., *Director*
Morton Hoberman, M.D., *Principal Physician, Physical Medicine and Rehabilitation*
Margaret A. O'Neill, *Director, Department of Physical Therapy*
Erbert Cicienja, *Director of Rehabilitation Section*

P.S. #85, Bronx, New York

William Benham Snow, M.D., *Medical Director*
Jessie Armolino, *Teacher Coordinator*
(Mrs.) Meriam Fraenkel, *Clinical Coordinator*

ST. BARNABAS HOSPITAL FOR CHRONIC DISEASES, Bronx, N.Y.

A. P. Merrill, M.D., M.H.A., *Superintendent*
Robert A. Muller, M.D., *Director, Department of Physical Medicine and Rehabilitation*
Manfred E. Lange, *Chief Physical Therapist*

ST. GILES CONVALESCENT HOME AND SCHOOL, Garden City, N.Y.

Charles R. Douglas, *General Manager*
Pearl B. Shulver, *Coordinator of Therapies*

VETERANS ADMINISTRATION HOSPITAL, Brooklyn, N.Y.

Alto Eisert, M.D., *Chief, Physical Medicine and Rehabilitation*

Theodore F. Childs, *Chief of Physical Therapy*

VETERANS ADMINISTRATION HOSPITAL, Montrose, N.Y.

Richard L. Harris, M.D., *Manager*

Jack Meislin, M.D., *Chief, Physical Medicine and Rehabilitation Service*

Henry Stano, *Chief, Physical Therapy*

VISITING NURSE ASSOCIATION, New York, N.Y.

Mary McCall Tyrie, *Director of Education*

Helen Hennessy, *Orthopedic Consultant; Supervisor of Physical Therapy*

COURSES OF INSTRUCTION

For electives and additional courses open to students in physical therapy, consult the announcements of Teachers College and the School of General Studies.

The University reserves the right to withdraw or modify these courses or to change the instructors as may be necessary.

DEGREE PROGRAM

Junior Year: Winter Session

***Anatomy 155—Human anatomy.** Lectures and laboratory. 3 pts. Professors Elftman and Noback.

Anatomy of the human body with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter being based on prepared dissection of the human body.

***Kinesiology 105—Applied anatomy and kinesiology.** Lectures and laboratory. 2 pts. Misses Brunnstrom and Jameson.

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement. Analysis of skills used in daily activities and other activities in physical and occupational therapy.

***Massage 3—Essentials of massage.** Lectures and laboratory. 2 pts. Professors Callahan and Gurewitsch and Miss Jameson.

The theory and technique of massage with demonstration and practice.

***Neuroanatomy 95—Anatomy of the nervous system.** 2 pts. Professor Sciarra.

Anatomy of the nervous system of man, including the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

***Orientation 39—Professional ethics and institutional organization.** 1 pt. Professor Snow.

Lectures governing appropriate conduct of medical assistants in the routine of their work. Orientation of medical workers toward institutional contacts.

***Physics 111—Physics applied to physical medicine.** Lectures and demonstrations. 2 pts. Dr. Lota.

Basic kinetics, radiation, hydro-dynamics, and electricity as they apply to the practice of physical therapy.

***Physiology 157—Aspects of human physiology.** Lectures and demonstrations. 2 pts. Professor Wang.

The physiology of the nervous system, of circulation, and of respiration. Emphasis on the physiology of exercise to meet the needs of the occupational therapy and physical therapy student.

Psychology 41—Child development. 2 pts. Dr. Wilking.

The mental, motor, social, and emotional development of the child. Special attention is given to a consideration of stress situations encountered by the child and his methods of handling them.

Prerequisite: General psychology.

Junior Year: Spring Session

Clinical Experience 2—Introduction to clinical experience. 2 pts.

Orientation to institutions, physical therapy departments, patients, keeping records, and in giving massage and exercise.

* Also an advanced standing course.

***Exercise 112—Therapeutic exercise, including underwater techniques.** Lectures and laboratory. 2 or 5 pts. Professors Snow, Darling, and Hoberman, Mrs. Weber, Miss Harris, and associates.

The basic principles of therapeutic exercise, including physiology of exercise, muscle evaluation and reeducation, tests and measurements, techniques of relaxation, and underwater exercises.

***Hydrotherapy 18—Theory and practice, including neuropsychiatric techniques.** Lectures and laboratory. 1 pt. Mrs. San Julian.

The physiological effects of water as a therapeutic agent; hydrotherapeutic techniques and other applications.

***Neurology 106—Clinical neurology.** 2 pts. Dr. Greene.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

***Orthopedics 136—Orthopedics.** 2 pts. Drs. Craig and Papas.

Lectures and clinical presentations descriptive of orthopedic conditions, including discussion of related problems—social, medical, surgical, and rehabilitation.

***Psychiatry 102—Elementary psychiatry.** 3 pts. Drs. Lesse and Amols, and an instructor to be announced.

Etiology and symptomatology of the major and minor psychoses, including the psychoneuroses and their treatment. Lectures with clinical demonstrations and field trips.

Work for the third point is a survey of psychological tests and measurements and analyzes the meaning of their results for the physical and occupational therapist.

***Thermotherapy 10—Heat application and radiation.** 1 pt. Instructor to be announced.

A study of spectral radiation and the theory and technique of application of radiation of various types.

Senior Year: Winter Session

Clinical Experience 3—Supervised clinical practice. 2 pts.

Lectures, observation, demonstrations, and supervised practice in various clinics of physical medicine and rehabilitation.

***Clinical Subjects 101—General medicine and surgery.** 2 pts. Drs. Wood and Voorhees.

General medicine. Dr. Wood.

A survey of the more common diseases with emphasis on pulmonary tuberculosis and cardiac disorders. Lectures deal primarily with the relationship of pathological physiology to the development of signs and symptoms of disease.

General surgery. Dr. Voorhees.

A survey of those common diseases for which there is surgical emphasis.

***Electrotherapy 13—Theory and practice of electrotherapy.** 2 pts. Dr. Lota and special lecturers.

Theory and principles of technique of the diagnostic and therapeutic uses of high frequency, galvanic, and other low frequency currents.

***Nursing Procedures 17—Bandaging and dressings.** Lectures and laboratory. 1 pt. Mrs. San Julian.

The techniques of bandaging, asepsis, handling of dressings, and bedside conduct.

Orientation 41—Seminar on social work and human behavior. 1 pt. Mrs. Carrick.

Orientation to social work as related to what we learn about human behavior and its relationship to physical therapy.

* Also an advanced standing course.

***Pathology 31—Elementary studies in pathology.** 1 pt. Instructor to be announced.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alterations of function resulting from these influences.

Psychiatry 101—Psychosomatic aspects of physical medicine. 1 pt. Instructor to be announced.

A consideration of the emotional aspects of all disease.

Senior Year: Spring Session

Biology 253b (T.C.)—Anatomy and physiology. Lectures and laboratory. 1 pt. Miss Leavell.

A functional and anatomical study of the bone-muscle-joint units, including nerve and blood supply. Prerequisite: *Biology 153* or equivalent. Laboratory fee: \$1.00.

Clinical Experience 4—Supervised clinical experience. 2 pts.

Continuation of *Clinical Experience 3*.

***Clinical Applications 130—Survey of medical and surgical conditions in relation to physical medicine.** Lectures and demonstrations. 2 pts. Professor Snow and associates.

This course gives the student a closer acquaintance with disease as it occurs in the practice of physical medicine. Specialists discuss the problems in their fields of practice, including particular pathology and the needs of physical medicine. This analysis is followed by prescriptive physical therapy to cover these special indications. There will be further clinical practice in hospitals.

***Orientation 16—Seminar.** 1 or 2 pts. Professor Callahan and Misses Kilburn and Jameson.

Lecture and discussion of topics of importance to the therapist in practice, including organization and administration in departments of physical therapy; job placement and recent developments in physical medicine. Seniors will register for two points which will include a general survey of occupational therapy, with emphasis on theoretical principles as applied to major disability areas.

Physical Therapy 116—Practical application of physical therapy. 2 pts. Professor Snow and associates.

Integration and application of the fundamental principles and skills already learned to specific cases.

Rehabilitation 150—Rehabilitation techniques and problems of the handicapped. Lectures and demonstrations. 2 pts. Miss Talmud.

Theory, practice, and evaluation of functional activities; types, application, and care of supportive apparatus.

Speech 162—Principles and practice of speech science. 2 pts. Dr. Eisenson.

This course covers the basic anatomy and physiology underlying speech science. Consideration will be given to the pathology of speech abnormalities and the therapeutic approach for their correction.

ADVANCED STANDING PROGRAM

All courses marked with an asterisk in the degree program, Junior and Senior Years, must be taken.

* Also an advanced standing course.

OCCUPATIONAL THERAPY

ADMINISTRATIVE OFFICERS

- GRAYSON KIRK, Ph.D., LL.D. *President of the University*
- JOHN A. KROUT, Ph.D., L.H.D., LL.D. . . . *Vice President and Provost of the University*
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- ROBERT C. DARLING, M.D. *Professor of Physical Medicine and Rehabilitation; Executive Officer, Department of Physical Medicine and Rehabilitation*
- WILLIAM BENHAM SNOW, M.D. *Professor of Physical Medicine; Medical Director, Courses in Physical and Occupational Therapy*
- MARIE LOUISE FRANCISCUS, B.S. *Assistant Professor and Director, Training for Occupational Therapists*
- VIRGINIA T. KILBURN, A.B. *Instructor and Associate Director, Training for Occupational Therapists*

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- WILLIAM AMOLS, *Associate in Neurology; A.B., M.D., New York University*
- MICHAEL ANTELL, *Assistant Professor of Public Health Practice; M.D., Long Island College of Medicine; M.P.H., Harvard*
- MARY E. CALLAHAN, *Assistant Professor of Physical Therapy; Director, Training for Physical Therapists; B.S., New York University; A.M., Columbia; Graduate, Clinton Hospital School of Nursing; Certificate in Physical Therapy, Posse Institute*
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- ROBERT C. DARLING, *Professor of Physical Medicine and Rehabilitation; A.B., M.D., Harvard*
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- MARIE LOUISE FRANCISCUS, O.T.R., *Assistant Professor of Occupational Therapy; B.S., Ohio State; Graduate, Philadelphia School of Occupational Therapy*
- EDWARD J. FREY, *Lecturer in Graphic Arts, School of General Studies*
- JUSTIN L. GREENE, *Instructor in Neurology; A.B., Columbia; M.D., Paris*
- KENNETH F. HERROLD, *Professor of Education, Teachers College; A.B., Bucknell; M.S.P.H., Michigan; Ed.D., Columbia*
- MORTON HOBERMAN, *Assistant Clinical Professor of Physical Medicine and Rehabilitation; B.S., New York University; M.B., M.D., Wayne*
- GLADYS L. JAMESON, *Instructor in Physical Therapy; Associate Director, Training for Physical Therapists; A.B., Syracuse; A.M., New York University; Certificate in Physical Therapy, Columbia*
- VIRGINIA T. KILBURN, O.T.R., *Instructor in Occupational Therapy; A.B., Wellesley; Certificate in Occupational Therapy, Columbia*
- STANLEY LESSE, *Instructor in Neurology; A.B., Pennsylvania; M.D., Jefferson*
- PAUL LINDENBERG, *Instructor in Otolaryngology; M.D., Vienna*
- YASHA LISENCO, *Instructor in Fine and Industrial Arts, Teachers College; B.S., College of the City of New York; A.M., Columbia*
- MELVIN LOOS, *Adjunct Professor of Graphic Arts, School of General Studies; Manager, Printing Office, Columbia University Press*
- WILLIAM J. MAHONEY, *Instructor in Fine and Industrial Arts, Teachers College; B.S., A.M., Columbia*
- CHARLES R. NOBACK, *Associate Professor of Anatomy; B.S., Cornell; M.S., New York University; Ph.D., Minnesota*
- ALEXANDER D. PAPAS, *Instructor in Orthopedic Surgery; A.B., M.D., Columbia*
- ISABEL ROBINAULT, O.T.R., *Instructor in Occupational Therapy; A.B., Barnard; A.M., Certificate in Occupational Therapy, New York University*
- KATHERINE T. SAN JULIAN, *Associate in Physical Therapy; A.B., New York University; Certificate in Physical Therapy, Columbia*

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DANIEL SCIARRA, *Assistant Professor of Neurology*; A.B., M.D., Harvard

LARISSA SKVORTSOV-LUKIN, *Instructor in Physiology*; Ph.D., Columbia

WILLIAM BENHAM SNOW, *Professor of Physical Medicine*; M.D., Long Island College of Medicine

ROBERT W. SOWERS, *Instructor in Fine and Industrial Arts, Teachers College*; A.B., New School for Social Research; A.M., Columbia

HELEN SPENCER, *Instructor in Physical Therapy*; A.B., Wellesley; Certificate in Physical Therapy, Hospital for Special Surgery

BLANCHE TALMUD, *Instructor in Physical Therapy*; B.S., Certificate in Physical Therapy, New York University

ALICE R. TREI, O.T.R., *Instructor in Occupational Therapy*; B.S., New York University; Certificate in Occupational Therapy, Columbia

SONYA E. WEBER, *Instructor in Physical Medicine and Rehabilitation*; A.B., Vienna; Sc.D., Eastern Reserve

THELMA L. WELLERSON, O.T.R., *Instructor in Occupational Therapy*; B.S. in Occupational Therapy, A.M., Columbia

HELEN P. WHITE, O.T.R., *Instructor in Occupational Therapy*; A.B., Michigan; A.M., New York University; Graduate, Philadelphia School of Occupational Therapy

VIRGINIA N. WILKING, *Instructor in Psychiatry*; A.B., Bryn Mawr; M.D., Columbia

JOHN A. WOOD, *Assistant in Medicine*; A.B., M.D., Harvard

SPECIAL LECTURERS

NORMAN ACTON, *Executive Director, United Nations Childrens Fund*; B.S., Illinois

NORMA A. ALESSANDRINI, O.T.R., *Director, Children's Recreation Service, Bellevue Hospital*; B.S., Cornell; Certificate in Occupational Therapy, Columbia

EDITH H. BROKAW, O.T.R., *Consultant in Occupational Therapy*; Graduate, Philadelphia School of Occupational Therapy

SIGNE BRUNNSTROM, *Consultant in Amputee Training, Institute of Physical Medicine and Rehabilitation*; B.S., Uppsala College, Sweden; Physical Therapy, Royal Gymnastic Central Institute, Sweden; A.M., New York University

HAROLD CHENVEN, *Chief Clinical Psychologist, Institute for the Crippled and Disabled*; A.B., Brooklyn; A.M., Ph.D., New York University

CECILE L. CROTTY, *Recreation Instructor, New York State Psychiatric Institute*; Diploma, Posse-Nissen College of Physical Education

MARJORIE FISH, O.T.R., *Executive Director, American Occupational Therapy Association*; A.B., Swarthmore; A.M., Columbia; Graduate, Boston School of Occupational Therapy

CLAIRE S. GLASSER, O.T.R., *Director of Occupational Therapy, Main Hospital of New York Hospital*; B.S. in Occupational Therapy, Columbia

CHARLES GOLDSTINE, C.O.C.P., *Director, Prosthetic and Orthopedic Appliance Shop, Institute for the Crippled and Disabled*

WILLIS C. GORTHY, *Director, Institute for the Crippled and Disabled*; C.E., Cornell

MARJORIE GROSS, *Chief, Cerebral Palsy Clinic, Institute for the Crippled and Disabled*; Certificate in Physical Therapy, Hospital for Special Surgery

MARY FRANCES HEERMANS, O.T.R., *Educational Secretary, American Occupational Therapy Association*; A.B., M.S., Illinois; Certificate in Occupational Therapy, Southern California

MARGARETTE N. HELMLE, *Director, Rehabilitation Service, Brooklyn Tuberculosis and Health Association*

FRIDA JOHANSEN, O.T.R., *Senior Occupational Therapist, Bellevue Hospital*; Diploma, University of Copenhagen; Graduate, Boston School of Occupational Therapy

SHULAMITH KASTEIN, *Speech Pathologist, Department of Otolaryngology, Columbia-Presbyterian Medical Center*; Diploma, Vienna

ELEANOR C. KILLE, O.T.R., *Occupational Therapy Supervisor, Southbury Training School*; Graduate, Philadelphia School of Occupational Therapy

HELEN C. MATHIAS, O.T.R., *Director, Occupational Therapy, Bellevue Hospital*; A.B., Montclair Teachers College; Graduate, Philadelphia School of Occupational Therapy

AGNES D. NESS, O.T.R., *Teacher, Vocational Department, Lexington School for the Deaf*; B.S., Certificate in Occupational Therapy, New York University; A.M., Columbia

JANET PINNER, *Director of Selective Placement Service, New York State Employment Service*; A.B., Adelphi

CHARLES RITTER, *Consultant, Special Aids and Appliances, American Foundation for the Blind, Inc.*

MORTON A. SEIDENFELD, *Director of Psychological Services and Public Education, National Foundation for Infantile Paralysis*; B.S., Washington; M.S., Ph.D., Pennsylvania

JOSEPH E. SNYDER, *Assistant Vice-President, Presbyterian Hospital*; A.B., Nebraska; M.D., Pennsylvania

MILDRED A. SPARGO, O.T.R., *Director, Occupational Therapy, Payne Whitney Psychiatric Clinic of New York Hospital*; Graduate, Boston School of Occupational Therapy

JOSEPH D. SULLIVAN, *Director, Social Adjustment Service, Institute for the Crippled and Disabled*; M.D., Cornell

EMIL TRAPANI, *Director, Industrial Rehabilitation Service, Institute for the Crippled and Disabled*

WILLIAM USDANE, *Director, Vocational Rehabilitation Service, Institute for the Crippled and Disabled*; A.B., A.M., Washington; Ph.D., New York University

ARTHUR B. VOORHEES, JR., *Chief Resident in Surgery, Presbyterian Hospital*; M.D., Columbia

CHARLENE ZAND, *Chief Speech Therapist, Institute for the Crippled and Disabled*; B.S., Northwestern

OCCUPATIONAL THERAPY

Occupational therapy is the administration of medically prescribed treatment in the form of supervised activity for persons injured in body or mind by accident or disease. Creative and manual arts, recreational activities, educational pursuits, prevocational exploration, and the activities of daily living are used in occupational therapy programs to improve physical function and to promote mental, social, and economic adjustment of the patient. Occupational therapy plays an integral part in modern rehabilitation programs for the mentally or physically ill.

Two courses of study are offered: one of twenty-five months' duration leading to the Bachelor of Science degree, and one of seventeen months' duration leading to a certificate. See "Admission Requirements" below.

The curriculum consists of classroom work devoted to courses in the biological, social, and clinical sciences providing a scientific, medical, and theoretical background. At the same time instruction is given in the techniques of creative and manual arts, activities of daily living, recreational, educational, and prevocational activities as they enter into the actual practice of occupational therapy. Correlated with theoretical classroom instruction, students observe treatment procedures in the occupational therapy units of several hospitals and institutions of the metropolitan area. A program of student clerkships in conjunction with the same institutions permits students to study treatment problems of specific diagnostic classifications as they are introduced in the medical lecture series, by means of the case study and laboratory method. In addition, there is a nine-month period of clinical practice in teaching hospitals under the supervision of the University.

The courses described in this announcement meet the requirements set forth by the American Occupational Therapy Association and by the Council on Medical Education and Hospitals of the American Medical Association, as published in their *Essentials of an Acceptable School of Occupational Therapy*, which regulates the standards by which schools are accredited. Graduates of both the degree course and the certificate course are eligible for the examination leading to admission to the Registry of Occupational Therapists maintained by the American Occupational Therapy Association. This examination is held throughout the country in February and June of each year. Admission to the registry is the certification of a therapist to practice.

ADMISSION REQUIREMENTS

Students will be admitted in September only. Applicants for admission must be between the ages of nineteen and thirty-five years. Both men and women are admitted to professional courses, depending upon individual qualifications. Demands made on the physical endurance and emotional stamina of the therapist require a record of good health. Applicants must be graduates of an approved high school or the equivalent, and must satisfy one of the following requirements:

A. *Candidates for the Degree.* Students who have satisfactorily completed at least two years of work in a college approved by Columbia University may register for the degree course, to be completed in approximately two years—sixteen months of theoretical training and nine months of clinical practice. Specific admission requirements include:

1. Sixty semester credits in liberal arts.
2. The above should include the following minima:

- a. Six semester credits in biology (including coverage in zoology), chemistry, or physics.
 - b. Three semester credits in psychology.
 - c. Three semester credits in sociology.
3. A grade of C or better is required to receive transfer credit.

NOTE:—Suggested preprofessional curriculum is given on page 25.

B. *Candidates for the Certificate.* Students who hold a baccalaureate degree acceptable to Columbia University may register in the advanced standing course, to be completed in approximately seventeen months—eight months of theoretical training and nine months of clinical practice. Specific admission requirements include:

1. A Bachelor's degree. (See note below.)
2. Courses completed for the above degree should include the following minima:
 - a. Six semester credits in biology (including coverage in zoology), chemistry, or physics.
 - b. Six semester credits in psychology.
 - c. Three semester credits in sociology.

NOTE:—Graduates with accredited professional training in fields closely related to occupational therapy may be admitted to the advanced standing program.

ADMISSION PROCEDURE

Forms to be used in making application for admission may be obtained by writing to the Occupational Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. Applications should be filed several months in advance of the time at which students wish to begin their studies. Transcripts of all post-secondary school education should be forwarded by the registrars of the respective schools directly to the Director of Occupational Therapy. A personal interview will be arranged for each applicant.

ESTIMATED EXPENSES

<i>University Expenses (total program)</i>	<i>Degree Program</i>	<i>Advanced Standing Program</i>
Tuition	\$1,500	\$750
University fees	80	40
Clinical supervisory fee	20	10
Books, materials, equipment, uniforms	240	160
Health and hospital fee	50	25
Degree or certificate application	20	10
<i>Total</i>	\$1,910	\$995
<i>Living Expenses (academic year)</i>		
Room	\$320-\$455	
Board	500	
Subway and bus fares (within program)	65	
<i>Total</i>	\$885-\$1,020	

Fees for materials and equipment in studio classes are payable at the time of registration and are subject to change in accord with market prices.

During clinical practice students spend approximately four months of the period in residence in hospitals where they receive full maintenance (room, board, and laundry). In some instances a maintenance arrangement is possible for a longer period of time.

There will be nominal transportation expenses for students in hospital affiliations outside the local area.

SUGGESTED PREPROFESSIONAL CURRICULUM

The following suggestions may be helpful to the student or guidance counsellor in planning the two-year college program prior to admission to the professional course leading to the Bachelor of Science Degree:

Six semester credits in each of the following fields; English composition, English literature, biology (including zoology), chemistry or physics, psychology, and sociology.

The remaining twenty-four credits might be chosen from such fields as speech, languages, social and political sciences, economics.

Transfer credit is not usually offered for required courses in physical education nor for any courses leading to a specific profession.

PROGRAMS OF STUDY IN OCCUPATIONAL THERAPY

Outlines of the two programs of study are given below. In the degree program, two years are spent on the campus in theoretical and technical study. To integrate the theoretical information, the student spends nine to twelve months of full-time clinical practice in psychiatric, general, pediatric, orthopedic, and tuberculosis services or hospitals. The summer periods are utilized for required clinical practice, thereby enabling the student to complete the full program in approximately two years.

The program for advanced-standing students, which is completed in seventeen months, is based on a combination of junior and senior courses, followed by nine to twelve months devoted to clinical practice.

DEGREE PROGRAM

Junior Year: Winter Session

<i>O.T. Theory 11</i>	Orientation to occupational therapy	2
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Psychology 41</i>	Child development	2
<i>Physiology 55</i>	Human physiology	2
<i>Neuroanatomy 95</i>	Anatomy of the nervous system	2
<i>Anatomy 155</i>	Human anatomy	3
<i>O.T. Fine Arts 11</i>	Needlecrafts	2
<i>O.T. Fine Arts 101</i>	Fundamentals of art and design	2
<i>O.T. Fine Arts 163</i>	Elementary woodwork	2
<i>Total points</i>		18

Junior Year: Spring Session

<i>O.T. Theory 12</i>	Application in major medical fields	2
<i>Psychiatry 102</i>	Elementary psychiatry	3
<i>Neurology 106</i>	Clinical neurology	2
<i>O.T. Fine Arts 14</i>	General crafts	3
<i>O.T. Fine Arts 26</i>	Pottery	2
<i>O.T. Fine Arts 30</i>	Elementary weaving	3
<i>O.T. Clerkship 2</i>	Case evaluations of psychiatric patients	2
	Elective in administration and techniques of recreation	1
<i>Total points</i>		18

June, July, and August: Clinical practice in psychiatry

Senior Year: Winter Session

<i>O.T. Theory 21</i>	Departmental organization and administration	2
<i>Clinical Subjects 101</i>	General medicine and surgery	2
<i>Kinesiology 105</i>	Applied anatomy and kinesiology	2
<i>Rehabilitation 115</i>	Occupational analysis	2
<i>O.T. Fine Arts 105</i>	Interpretive design	2
<i>O.T. Fine Arts 165</i>	Advanced woodwork	2
<i>O.T. Clerkship 3</i>	Case evaluations of medical and surgical patients	2
<i>T.C. Ed. 200 GD</i>	Introduction to group development	2
	Elective	2
		—
<i>Total points</i>		18

Senior Year: Spring Session

<i>O.T. Theory 24</i>	Application to orthopedic and neurological disabilities	2
<i>Clinical Subjects 102</i>	Orthopedic, auditory, and visual disabilities	2
<i>Exercise 112</i>	Therapeutic exercise	2
<i>Rehabilitation 118</i>	Agencies and personnel in rehabilitation	2
<i>O.T. Graphic Arts 1R</i>	Art of hand printing	2
<i>O.T. Fine Arts 18</i>	Leatherwork	2
<i>O.T. Fine Arts 168</i>	Metalwork and jewelry	2
<i>O.T. Clerkship 4</i>	Case evaluations in physical and vocational rehabilitation	2
Elective	Treatment media	2
		—
<i>Total points</i>		18

July-January: Six months of clinical practice in specified areas of service

ADVANCED STANDING PROGRAM

Winter Session

<i>O.T. Theory 11</i>	Orientation to occupational therapy	2
<i>Physiology 55</i>	Basic human physiology	2
<i>Clinical Subjects 101</i>	General medicine and surgery	2
<i>Kinesiology 105</i>	Applied anatomy and kinesiology	2
<i>Anatomy 155</i>	Human anatomy	3
<i>O.T. Fine Arts 15</i>	General crafts and needlecrafts	3
<i>O.T. Fine Arts 17</i>	Leatherwork	1
<i>O.T. Fine Arts 35</i>	Weaving	2
<i>O.T. Fine Arts 167</i>	Woodwork	2
		—
<i>Total points</i>		19

Spring Session

<i>O.T. Theory 12</i>	Application in major medical fields	2
<i>O.T. Theory 24</i>	Application to orthopedic and neurological disabilities	2
<i>Clinical Subjects 102</i>	Orthopedic, auditory, and visual disabilities	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Neurology 106</i>	Clinical neurology	2
<i>Rehabilitation 118</i>	Agencies and personnel in rehabilitation	2
<i>O.T. Graphic Arts 1R</i>	Art of hand printing	1
<i>O.T. Fine Arts 26</i>	Pottery	2
<i>O.T. Fine Arts 106</i>	Interpretive design	2
<i>O.T. Fine Arts 168</i>	Metal work and jewelry	2
		<i>Total points</i> 19

July-April: Nine months of clinical practice in specified areas of service

Additional requirements for all advanced standing students:

1. Attendance at a weekly seminar during the spring session. Discussions in this seminar are concerned with advanced theory, principles, and practice of occupational therapy.
2. A paper to be written during the clinical practice period in an area of particular interest to the student and related to clinical experiences. This paper is to be submitted two months prior to the completion of clinical practice.

HOSPITALS AND AGENCIES AFFILIATED FOR CLINICAL PRACTICE

The nine to twelve months of clinical practice consist of full-time practical experience in well-organized and carefully supervised occupational therapy departments under the immediate direction of registered occupational therapists. Clinical practice shall be completed within one year following termination of academic work. During this period students attend lectures, clinics, staff meetings, and orientation in related treatment departments, conduct special case studies, and meet other educational requirements.

CHILDREN'S HOSPITAL, Buffalo, N.Y.

Moir P. Tanner, *Director*

Jane E. Fogelsonger, O.T.R., *Director of Occupational Therapy*

CHILDREN'S REHABILITATION INSTITUTE, Reisterstown, Md.

Winthrop M. Phelps, M.D., *Medical Director*

Ruth W. Brunyate, O.T.R., *Director of Occupational Therapy*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N.Y.

Alvin J. Binkert, *Vice President and General Manager*

William Benham Snow, M.D., *Director, Clinical Physical Medicine*

(Mrs.) Helen P. White, O.T.R., *Chief Occupational Therapist*

COMMUNITY WORKSHOPS OF RHODE ISLAND, INC., Providence, R. I.

(Mrs.) Iris W. Booth, *Executive Director*

(Mrs.) Eleanor M. Black, O.T.R., *Chief Occupational Therapist*

CONNECTICUT STATE HOSPITAL, Middletown, Conn.

Edgar C. Yerbury, M.D., *Superintendent*

(Mrs.) Alice M. Rogers, O.T.R., *Supervisor of Occupational Therapy*

CURATIVE WORKSHOP, PHILADELPHIA SCHOOL OF OCCUPATIONAL THERAPY, Philadelphia, Pa.

Clare S. Spackman, O.T.R., *Director*

DELAWARE CURATIVE WORKSHOP, INC., Wilmington, Del.

Eleanor J. Bader, R.P.T., *Executive Director*

Anne S. Miller, O.T.R., *Chief Occupational Therapist*

DISTRICT OF COLUMBIA HEALTH DEPARTMENT, BUREAU OF MATERNAL AND CHILD HEALTH, Washington, D.C.

Crippled Children's Clinic

Philip A. E. Stebbing, M.D., *Superintendent*

(Mrs.) Helen N. Cromartie, O.T.R., *Director of Occupational Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N.Y.

Willis C. Gorthy, *Director*

A. David Gurewitsch, M.D., *Director of Medical Services*

Thelma L. Wellerson, O.T.R., *Director of Occupational Therapy*

MONTEFIORE HOSPITAL—WESTCHESTER DIVISION, Bedford Hills, N.Y.

Irving Gottsegen, *Assistant Director*

(Mrs.) Dorothy A. Sebesta, O.T.R., *Occupational Therapy Executive*

NEW YORK CITY DEPARTMENT OF HOSPITALS

Bruce B. Grynbaum, M.D., *Director of Rehabilitation and Physical Medicine*

Bellevue Hospital

Helen C. Mathias, O.T.R., *Supervisor of Occupational Therapy*

Goldwater Memorial Hospital

Frances E. Heess, O.T.R., *Supervisor of Occupational Therapy*

NEW YORK HOSPITAL, New York, N.Y.

Children's Clinic

S. Z. Levine, M.D., *Pediatrician in Chief*

Michi Yasumura, O.T.R., *Director of Pediatric Occupational Therapy*

Main Hospital

Henry N. Pratt, M.D., *Director*

(Mrs.) Claire Glasser, O.T.R., *Director of Occupational Therapy*

Payne Whitney Psychiatric Clinic

Oskar Diethelm, M.D., *Psychiatrist in Chief*

Mildred A. Spargo, O.T.R., *Director of Occupational Therapy*

NEW YORK STATE DEPARTMENT OF HEALTH, DIVISION OF TUBERCULOSIS CONTROL

Robert E. Plunkett, M.D., *Assistant Commissioner*

M. Arlene Mellinger, O.T.R., *Supervisor of Occupational Therapy*

Hermann M. Biggs Memorial Hospital, Ithaca, N.Y.

N. Stanley Lincoln, M.D., *Director*

Unabelle Emm, O.T.R., *Director of Occupational Therapy*

Homer Folks Tuberculosis Hospital, Oneonta, N.Y.

Ralph Horton, M.D., *Director*

Irene Kubovich, O.T.R., *Director of Occupational Therapy*

J. N. Adam Memorial Hospital, Perrysburg, N.Y.

Richard Nauen, M.D., *Director*

Janet McLaughlin, O.T.R., *Director of Occupational Therapy*

NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE

Virginia M. Scullin, O.T.R., *Director of Occupational Therapy*

Pilgrim State Hospital, Brentwood, N.Y.

Harry J. Worthing, M.D., *Director*

Helen L. Hedges, O.T.R., *Supervisor of Occupational Therapy*

New York State Psychiatric Institute, New York, N.Y.

Lawrence C. Kolb, M.D., *Director*

(Mrs.) Alice R. Trei, O.T.R., *Senior Occupational Therapist*

NEW YORK STATE REHABILITATION HOSPITAL, West Haverstraw, N.Y.

Austin J. Canning, M.D., *Director*

Viola W. Svensson, O.T.R., *Director of Occupational Therapy*

NORWICH STATE HOSPITAL, Norwich, Conn.

Ronald H. Kettle, M.D., *Superintendent*

Harry Kromer, R.N., O.T.R., *Supervisor of Occupational Therapy*

REHABILITATION CENTER, LIBERTY MUTUAL INSURANCE CO., Boston, Mass.

Kenneth N. Palmer, *Manager*

Alexander P. Aitken, M.D., *Medical Director*

F. Elizabeth Shepard, O.T.R., *Director of Occupational Therapy*

U. S. ARMY HOSPITALS

Office of the Surgeon General, Washington, D.C.

Harriet S. Lee, Col., A.M.S.C.; *Chief, Army Medical Specialist Corps*

Myra L. McDaniel, Lt. Col., A.M.S.C.; *Chief Occupational Therapist, Army Medical Specialist Corps*

U. S. PUBLIC HEALTH SERVICE HOSPITAL, Boston, Mass.

Samuel J. Hall, M.D., *Medical Officer in Charge*

Margaret L. Blodgett, O.T.R., *Chief Occupational Therapist*

VETERANS ADMINISTRATION HOSPITALS

Central Office, Washington, D.C.

A.B.C. Knudson, M.D., *Chief, Physical Medicine and Rehabilitation Division*

Dorothy Rouse, O.T.R., *Chief, Occupational Therapy Section*

COURSES OF INSTRUCTION

For electives and additional courses open to students in occupational therapy, consult the announcements of Teachers College and the School of General Studies.

The University reserves the right to withdraw or modify these courses or to change the instructors as may be necessary.

DEGREE PROGRAM

Junior Year: Winter Session

***Occupational Therapy 11—Orientation to occupational therapy.** 2 pts. Professor Franciscus and special lecturers.

A general survey of the field. History and development of occupational therapy with special references to present uses and techniques. Supplementary reading and reports. Orientation visits to hospital services.

Pathology 31—Elementary studies in pathology. 1 pt. Instructor to be announced.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alterations of function resulting from these influences.

Psychology 41—Child Development. 2 pts. Dr. Wilking.

The mental, motor, social, and emotional development of the child. Special attention is given to a consideration of stress situations encountered by the child and his methods of handling these.

Prerequisite: General psychology.

***Physiology 55—Human physiology.** 2 pts. Dr. Skvortsov-Lukin.

The dynamics of human processes. The interrelationships of the various bodily systems are stressed.

Neuroanatomy 95—Anatomy of the nervous system. 2 pts. Professor Sciarra.

The anatomy of the nervous system of man, including the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

***Anatomy 155—Human anatomy.** 3 pts. Professors Elftman and Noback.

Anatomy of the human body with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter based on prepared dissection of the human body.

O.T. Fine Arts 11—Needlecrafts. 2 pts. Instructors to be announced.

The course includes instruction in clothing construction, hand sewing, and various forms of embroidery and allied needlecrafts (knitting, crocheting, and tatting). Care and use of the sewing machine, pattern alterations, the principles of upholstering, slip covering, and drapery making. Hospital projects and the use of needlecrafts for prevocational training are stressed.

Materials charge.

O.T. Fine Arts 163—Elementary woodwork. 2 pts. Mr. Lisenco.

This course is designed to orient the student to the fundamental principles of woodworking with hand tools. Careful workmanship and strong construction are stressed.

Materials charge.

O.T. Fine Arts 101—Fundamentals of art and design. 2 pts. Mr. Sowers.

A general survey course in the arts, which stresses the fundamentals of design as applied to crafts, commercial design, drawing, and painting. Museum and store visits. Lectures, readings, and discussions.

Materials charge.

Junior Year: Spring Session

***Occupational Therapy 12—Application in major medical fields.** 2 pts. Professor Franciscus and special lecturers.

This course stresses the principles and practice of occupational therapy techniques as applied to the tuberculous, the mentally ill, and to patients with medical and surgical diagnoses. Supplementary readings and reports. Field visits.

* Also an advanced standing course.

***Psychiatry 102—Elementary psychiatry.** 2 or 3 pts. Drs. Lesse, Amols, and instructor to be announced.

Etiology and symptomatology of the major and minor psychoses including the psychoneuroses and their treatment. Lectures with clinical demonstrations and field trips.

Work for the third point is a survey of psychological tests and measurements, and analyzes the meaning of their results for the physical and occupational therapist.

***Neurology 106—Clinical neurology.** 2 pts. Dr. Greene.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

O.T. Fine Arts 14—General crafts. 1, 2, or 3 pts. Instructors to be announced.

This course includes many of the smaller crafts, such as: cord knotting, netting, braiding, rugmaking, chair seating, chip carving, and plastic fabrication. Emphasis is placed on basic techniques and their use in occupational therapy. Museum visit.

Materials charge.

***O.T. Fine Arts 26—Pottery.** 2 pts. Mr. Mahoney.

An introduction to the possibilities and methods of using clay to create functional pottery with coils, with the potter's wheel, and by casting. Moldmaking, methods of decorating and glazing, and firing of kilns are studied for practical use in teaching.

Materials charge.

O.T. Fine Arts 30—Elementary weaving. 3 pts. Instructors to be announced.

Problems include the finger weaves and small appliances, such as cards, inkle looms, and rigid frames. Stress is laid on the mechanics and methods of weaving on two- and four-harness looms. A museum trip.

Materials charge.

O.T. Clerkship 2—Case evaluations of psychiatric patients. 2 pts. Miss Kilburn (coordinator).

Correlation of instruction in psychology, psychiatry, and occupational therapy theory by assigned patient work-ups in occupational therapy units. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion. Required written reports and field trips.

Senior Year: Winter Session

Occupational Therapy 21—Departmental organization and administration. 2 pts. Miss Kilburn and special lecturers.

Study of departmental organizations and administration in the various medical fields. The techniques of application of occupational therapy in geriatrics and pediatrics are included in this course. Supplementary reading, reports, and field trips.

***Clinical Subjects 101—General medicine and surgery.** 2 pts. Drs. Wood and Voorhees.

General medicine. Dr. Wood.

A survey of the more common diseases with emphasis on pulmonary tuberculosis and cardiac disorders. Lectures deal primarily with the relationship of pathological physiology to the development of signs and symptoms of disease.

General surgery. Dr. Voorhees.

A survey of those common diseases for which there is surgical emphasis.

***Kinesiology 105—Applied anatomy and kinesiology.** 2 pts. Misses Brunnstrom and Jameson.

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement. Analysis of skills used in daily activities and other activities in physical and occupational therapy. Lectures and laboratory.

Rehabilitation 115—Occupational analysis. 2 pts. Instructor to be announced.

An orientation to a variety of occupational situations and to the physical, mental, and emotional demands made on the worker. Analyses are made of industrial processes and the duties of the homemaker, and consideration is given to the principles of energy conservation. The place of occupational therapy in prevocational exploration and evaluation is discussed. Films and field visits.

* Also an advanced standing course.

T.C. Ed. 200 GD—Introduction to group development. 2 or 3 pts. Professor Herrold and others.

Orientation to concepts, values, and skills related to group development, group process, and guidance. Analyses of the functioning of individual members, the group as a unit, consultants, and other resources. Group methods differentiated from other procedures of guidance, teaching and learning, and administration. Opportunities for practice and evaluation of skills in small groups during class sessions.

***O.T. Fine Arts 105–106—Interpretive design.** 2 pts. Instructors to be announced.

A course in which the principles of design are applied to occupational therapy media, such as block printing, stenciling, silk screening, and cardboard construction. Museum visit.

Materials charge.

O.T. Fine Arts 165—Advanced woodwork. 2 pts. Mr. Lisenco.

This course is a continuation of *O.T. Fine Arts 163* and includes an introduction to the uses of power machinery.

Materials charge.

O.T. Clerkship 3—Case evaluations of medical and surgical patients. 2 pts. Miss Kilburn (coordinator).

Correlation of instruction in medicine, surgery, pediatrics, and occupational therapy theory by assigned patient work-ups in occupational therapy units and ward situations. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion. Written reports and field trips.

Senior Year: Spring Session

***Occupational Therapy 24—Application to orthopedic and neurological disabilities.** 2 pts. Misses Abbott and Wellerson.

Lecture and laboratory course in application of techniques in treatment of physical injuries and diseases including orthopedic and neurological disabilities. Demonstration and return demonstration by the student.

***Clinical Subjects 102—Orthopedic, auditory, and visual disabilities.** 2 pts. Drs. Clark, Craig, Lindenberg, and Papas.

Orthopedics. Drs. Craig and Papas.

Lectures and clinical presentations descriptive of orthopedic conditions, including discussion of related problems—social, medical, surgical, and rehabilitation.

Auditory disabilities. Dr. Lindenberg.

Visual disabilities. Dr. Clark.

A brief review of the anatomy and physiology of the ear and eye, followed by a discussion of pathological conditions affecting those organs.

Exercise 112—Therapeutic exercise. 2 to 5 pts. Professors Snow, Darling, Hoberman, and Mrs. Weber, and associates.

The basic principles of therapeutic exercise including the physiology of exercise, muscle evaluation and reeducation, and tests and measurements. Lectures and laboratory.

***Rehabilitation 118—Agencies and personnel in rehabilitation.** 2 pts. Miss Kilburn (coordinator) and special lecturers.

Lectures concerning community resources for the physical, psychological, social, and vocational rehabilitation of the handicapped. Legislation and organization of both public and private health agencies are studied.

***O.T. Graphic Arts 1R—Art of hand printing.** 1 or 2 pts. Professor Loos and Mr. Frey.

The fundamentals of printing and its application as a therapeutic exercise for handicapped persons. Instruction in type faces, proofreading, and presswork. The laboratory affords practical application of hand typesetting, including operation of hand and foot presses. Films, demonstrations, and field trips.

* Also an advanced standing course.

***O.T. Fine Arts 17-18—Leatherwork.** 1 or 2 pts. Instructor to be announced.

A course in hand leatherwork. Techniques of decoration and construction of small projects as used in occupational therapy.

Materials charge.

***O.T. Fine Arts 168—Metalwork and jewelry.** 2 pts. Mr. Lisenco.

A course in the basic techniques of hammered metal and jewelry. Elementary principles of mechanical drawing.

Materials charge.

O.T. Clerkship 4—Case evaluations in physical and vocational rehabilitation. 2 pts. Professor Franciscus (coordinator).

Correlation of instruction in orthopedics, neurology, and rehabilitation methods by assigned patient work-ups. A rotating clinical schedule is assigned each student. Each experience is followed by a group seminar.

Required written reports and field trips.

ADVANCED STANDING PROGRAM

Winter Session

All courses marked with an asterisk under Winter Session, Junior Year and Senior Year, must be taken. In addition:

O.T. Fine Arts 15—General crafts and needle crafts. 1, 2, or 3 pts. Instructors to be announced.

The general crafts section of this course includes cordage, plastics, wood carving, chair seating, and rug-making. The needlecraft section is designed to supplement the student's knowledge and to guide her in the application of all types of needlework to occupational therapy.

Materials charge.

O.T. Fine Arts 17-18—Leatherwork. See Spring Session, Senior Year.

O.T. Fine Arts 35—Weaving. 2 pts. Instructors to be announced.

Techniques of loom and small appliance weaving are covered with particular emphasis on the mechanics of weaving and the application to occupational therapy situations. Acquaintance with the basic weaves, textures, and simple patterns are gained through the use of various fibers.

Materials charge.

O.T. Fine Arts 167—Woodwork. 2 pts. Mr. Lisenco.

A course designed to orient students in the fundamentals of woodworking and to develop a reasonable skill in the use of hand tools and finishing processes. An introduction to the use of power tools.

Materials charge.

Spring Session

All courses marked with an asterisk under Spring Session, Junior Year and Senior Year, must be taken. In addition:

O.T. Fine Arts 105-106—Interpretive design. See Winter Session, Senior Year.

* Also an advanced standing course.

CONDENSED ACADEMIC CALENDAR

The complete academic calendar for the academic year 1956-1957 may be obtained from the Secretary of the University. The following calendar relates only to students in the Courses for Physical Therapists and Occupational Therapists.

1956

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| September | 24 | Monday, through September 26, Wednesday. Registration (including payment of fees) for the winter session. Students allowed to register after the period specified must pay a late fee. |
| September | 27 | Thursday. Classes begin. |
| October | 6 | Saturday. Last day for making changes in programs for the winter session. |
| October | 31 | Wednesday. Award of October degrees. |
| November | 6 | Tuesday. Election Day. Holiday. |
| November | 20 | Tuesday. Annual Thanksgiving Service in St. Paul's Chapel. |
| November | 22 | Thursday, through November 25, Sunday. Thanksgiving holidays. |
| December | 3 | Monday. Last day for filing application or renewal of application for degrees and certificates to be awarded in February. The privilege of later application may be granted on payment of a late fee. |
| December | 24 | Monday, through |

1957

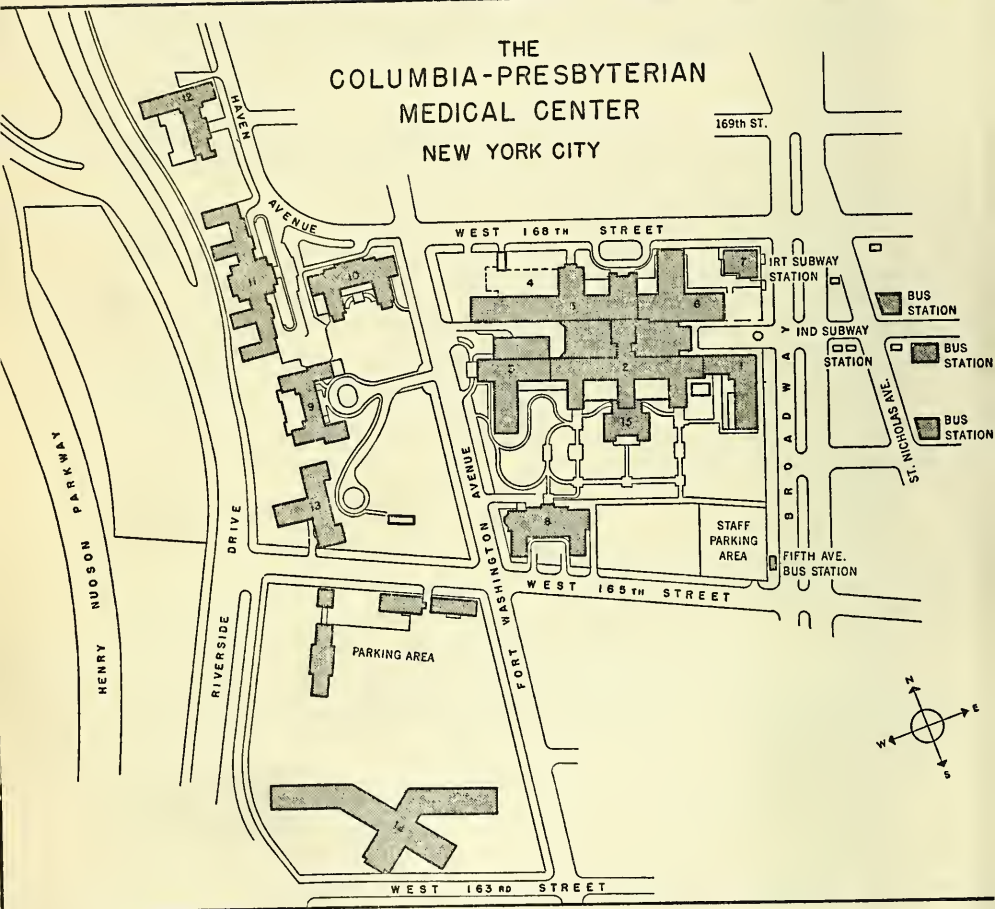
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| January | 6 | Sunday. Christmas holidays. |
| January | 21 | Monday, through January 31, Thursday. Midyear examinations. |
| February | 4 | Monday through February 5, Tuesday. Registration (including payment of fees) for the spring session. Students allowed to register after the period specified must pay a late fee. |
| February | 6 | Wednesday. Classes begin. |
| February | 16 | Saturday. Last day for making changes in programs for the spring session. |
| February | 27 | Wednesday. Award of February degrees. |
| March | 1 | Friday. Last day for filing application or renewal of application for all degrees and certificates to be conferred in June. The privilege of later application may be granted on payment of a late fee. |
| April | 14 | Sunday, through April 21, Sunday. Easter holidays. |
| May | 20 | Monday, through May 30, Thursday. Final examinations. |

COMMENCEMENT, JUNE 2 TO JUNE 4

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| June | 2 | Sunday. Baccalaureate Service. |
| June | 4 | Tuesday. Conferring of degrees and certificates. |

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| August | 1 | Thursday. Last day for filing application or renewal of application for degrees and certificates to be awarded in October. The privilege of later application may be granted on payment of a late fee. |
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THE
COLUMBIA-PRESBYTERIAN
MEDICAL CENTER
NEW YORK CITY



1. BABIES HOSPITAL
2. PRESBYTERIAN HOSPITAL
N. Y. ORTHOPAEDIC HOSPITAL
SLOANE HOSPITAL
SQUIER UROLOGICAL CLINIC
3. HARKNESS PAVILION
4. POWER HOUSE
5. COLLEGE OF PHYSICIANS AND SURGEONS
6. VANDERBILT CLINIC
SCHOOL OF DENTAL AND ORAL SURGERY

7. N. Y. CITY DEPT. OF HEALTH
SCHOOL OF PUBLIC HEALTH AND
ADMINISTRATIVE MEDICINE
8. INSTITUTE OF OPHTHALMOLOGY
9. MAXWELL HALL
10. NEUROLOGICAL INSTITUTE
11. N. Y. STATE PSYCHIATRIC INSTITUTE
12. BARD HALL
13. HARKNESS MEMORIAL HALL
14. FRANCIS DELAFIELD HOSPITAL, N. Y. C.
15. PAULINE A. HARTFORD MEMORIAL CHAPEL

Columbia University

BULLETIN OF INFORMATION

Fifty-seventh Series, No. 4

January 26, 1957

ANNOUNCEMENT OF COURSES
FOR
PHYSICAL THERAPISTS

OCCUPATIONAL THERAPISTS
COLLEGE OF PHYSICIANS AND SURGEONS



1957-1958

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N.Y.

INFORMATION

Application blanks and further information about the courses in this bulletin may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. The office is open week-days 9 A.M. to 5 P.M.; Saturdays by appointment. Telephone: WAdsworth 3-2500, extension 7941.

WINTER SESSION

September 26, 1957, through January 30, 1958
Registration—September 23 through 25

SPRING SESSION

February 5, 1958, through May 29, 1958
Registration—February 3 through February 4

COLUMBIA UNIVERSITY BULLETIN OF INFORMATION • SERIES 57 • NO. 4 • JANUARY 26, 1957 • 6,500 COPIES

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PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

This bulletin describes two separate courses offered by Columbia University: Physical Therapy and Occupational Therapy. These courses are given at the College of Physicians and Surgeons and the Columbia-Presbyterian Medical Center under the auspices of the Department of Physical Medicine and Rehabilitation. The courses of study are approved by the Council on Medical Education and Hospitals of the American Medical Association and prepare the student to meet the qualifications for registration in either physical or occupational therapy. See pages 9-20 for physical therapy and pages 21-36 for occupational therapy.

ADMISSION

Prior to admission to professional courses in physical or occupational therapy, the applicant must have taken preprofessional subjects at an approved college of his choice to the extent of at least sixty semester credits. Should the student desire to complete this work at Columbia University, application should be made directly to Barnard College (undergraduate women), Columbia College (undergraduate men), or the School of General Studies (adult men and women).

Application for transfer to professional courses should be made on the official application form of the school in question and should be filed and accepted well in advance of the time the student expects to begin his studies. Acceptance of a student for admission is based on grounds of character and health as well as on the fulfillment of academic requirements. For further details on admission requirements and procedure see pages 11 and 24.

REGISTRATION

Before attending University courses, every student must register in person during the registration period which precedes each session. For the academic year 1957-58 the registration periods are:

Winter session: Monday, September 23, through Wednesday, September 25.

Spring session: Monday, February 3, through Tuesday, February 4.

The registration procedure is as follows:

1. The student reports to the Office of Physical and Occupational Therapy on the third floor of the College of Physicians and Surgeons, 630 West 168th Street, and fills out various forms giving information required for University records.
2. He has his program approved by the director.
3. He takes his completed forms to the Office of the Registrar and pays his fees in the Office of the Bursar.

The Office of the Registrar is open from 9 A.M. to 5 P.M. daily except Saturdays and holidays, and on Saturday from 9 A.M. to 12 M.

FEES

Tuition fees, the University fee, and laboratory deposits are payable each session in advance and as part of registration. If they are paid after the last day of registration (see

2 • FEES

the Academic Calendar), they will not be reduced and a late fee of \$3.00 will be imposed. The student health and hospital fee is payable with the other fees for the winter session and is for the entire academic year.

The following fees, prescribed by statute for courses in physical and occupational therapy, are subject to change at any time at the discretion of the Trustees:

University fee

Up to four points, inclusive	\$ 6.00
Over four points to eight points, inclusive	12.00
Over eight points but under twelve points	18.00
Twelve points or more	24.00
With the proviso	
That in no instance shall the amount of the combined University fee and tuition fee be less than	50.00
Registration as engaged only in research	50.00

Tuition fee

For all courses except where a special fee is fixed, per point	30.00
With the proviso that the fee for a winter or spring session in the case of a student enrolled for fifteen or more points in physical therapy or in occupational therapy shall be	450.00

Clinical supervisory fee	12.00
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Student health and hospital fee (see below)	25.00
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Application fees

For each deficiency or special examination	10.00
For renewal of application for a degree (see below)	1.00

Late fees

For late registration	3.00
For late application for a deficiency or special examination	5.00
For late application, or renewal of application, for a degree or certificate	5.00

Rebates

The University fee, the student health and hospital fee, application fees, and late fees are not subject to rebate. If a student withdraws from the School, the Registrar *may* authorize a partial return of tuition fees. If a rebate is allowed, it will be reckoned from the day on which the Registrar receives written notice from the student.

A deposit for the use of lockers, keys, apparatus, material, and the like is required in certain courses.

Acceptance fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the director that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will be retained by the University and, if the applicant does not register for the following academic year, it will not be returned, unless the University for any reason cancels the acceptance. If he registers in the courses for physical and occupational therapy in the class to which he has been admitted, the amount of the acceptance fee will be deducted from his tuition fees.

Student health and hospital fee. This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service. Students who already have hospital insurance will not be charged the cost of the premium.

Renewal of application for a degree. An application for a degree (except doctoral degrees) terminates at the next regular time for the issuance of diplomas subsequent to the date of filing, but it may be renewed for a fee of \$1.00 each time that the candidate chooses to come up for consideration.

GENERAL REGULATIONS

RESIDENCE

All women students under twenty-one years of age, who are not living at home or with relatives, are required to secure approval of their residence from the Directors. Information concerning desirable accommodations may be obtained from the Physical and Occupational Therapy Office (see also pages 4-5).

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

The privileges of the University are not available to any student until he has completed his registration. Since, under the University statutes, payment of fees is a part of registration, no student's registration is complete until his fees have been paid. No student is permitted to attend any University course for which he is not officially registered, nor may any student register after the stated period unless he obtains the written consent of the proper director.

ABSENCES

Students are held accountable for absences incurred owing to late enrollment. It is a student's duty to attend punctually each class or laboratory exercise in each course. For credit toward the certificate and degree, regular attendance is required in addition to the proficiency attested by classwork and examination.

Students whose religious duties conflict at any time with academic requirements should apply to the proper director for an equitable solution.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems

proper, and, subject to the reserved powers of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper director. Students withdrawing are required to notify the Registrar in writing at once.

The director may, for reasons of weight, grant a leave of absence to a student in good standing.

GRADES AND CREDITS

The student's performance in a course is reported according to the following grades: A, excellent; B, good; C, fair; and F, failure. A, B, and C are passing grades counting for credit toward the degree or certificate and accepted as the basis for advancement to a higher course. A student who does not receive a mark of C or above in a prescribed course must repeat that course.

The mark MU is not a grade and simply implies that in the opinion of the instructor the student may be given the privilege of taking a deficiency examination. When this mark is given at the end of the winter session, it does not necessarily mean that the student may not pursue his courses in the spring session, but that he will get no credit for the course in question until he has received a definite passing grade.

LIVING ACCOMMODATIONS

The residence halls of the University are located on or immediately adjacent to the campus and afford easy access to libraries and classrooms as well as comfortable accommodations in an environment conducive to academic work. They serve also as a center of campus life and provide companionship for students of like interests. The University, therefore, desires its students to live whenever possible in the residence halls.

Within several of the residence halls are dining rooms maintained for all students and faculty members of the University.

Assignment of rooms is made on the session basis. Room payments are due at the beginning of each session, but in case of need other arrangements can be made.

Students coming from out of town to attend evening classes or those wishing to stay overnight at Columbia may secure accommodations by applying to the Livingston Hall Office (for men) or the Johnson Hall Office (for women).

Residence halls bulletins and application blanks for rooms may be obtained (for men) from the Men's Residence Halls Office, 125 Livingston Hall, Columbia University, New York 27; (for women) from the Johnson Hall Office, 411 West 116th Street, New York 27. The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

RESIDENCE FOR MEN

There are four University residence halls on South Quadrangle which have accommodations for approximately 1,670 men. Hartley Hall, Livingston Hall, and the lower floors

of John Jay Hall are reserved for students in Columbia College; Furnald Hall, for law and graduate students; and the upper floors of John Jay Hall, for graduate and professional school students. Rates for the academic year range from \$200 to \$410. There are a few rooms available at \$160 which are assigned only with the approval of the director of the University Placement Bureau. Application for these accommodations should be filed with the Men's Residence Halls Office, together with the statement that application has been made to the director of the University Placement Bureau for his approval. These lowest-priced rooms will not be assigned to students holding scholarships amounting to \$400 or more.

All rates are subject to revision if costs change greatly.

The main dining room is on the first floor of John Jay Hall. The lower John Jay Lobby leads to the Lion's Den, a grillroom (open to both men and women students) with facilities for late breakfast, lunch, and dinner.

RESIDENCE FOR WOMEN

Johnson Hall is provided by the University as a residence for women students in the graduate and professional schools. A limited number of rooms are assigned to full-time undergraduate students who are matriculated for a degree. The Hall was erected and particularly designed for the comfort and convenience of women students. With its various social rooms, attractive dining room, and comfortable bedrooms, it offers pleasant conditions for University life. The rates for rooms range from \$320 to \$455 for the academic year. There are a limited number of suites (two adjoining rooms) from \$300-\$390 per person. The rate for two meals a day, breakfast and dinner, is \$350 for the academic year. All rates are subject to change if costs increase greatly. Residents of Johnson Hall are required to take breakfast and dinner in the dining room of Johnson Hall.

OFF-CAMPUS ACCOMMODATIONS

Columbia University maintains a registry of off-campus accommodations, where the addresses of available furnished rooms in the neighborhood may be obtained. It is not possible to obtain listings by mail as these accommodations are for immediate rental; moreover, it is advisable that rooms be engaged only after personal inspection. The registry is for the use of faculty, staff, and students of the University, and each applicant must show a letter of admission or some other official Columbia correspondence to be eligible for this service. There is no charge to either the student or the landlord and all financial arrangements must be concluded between the applicant and the landlord. The registry is located in 115 Livingston Hall.

International House, a privately owned student residence near the campus, has accommodations for about five hundred students, both foreign and American. Rates for the academic year are \$330 to \$650. To be eligible for admission a student must be over twenty-one and must be registered for at least twelve points. Address the Committee on Admissions, International House, 500 Riverside Drive, New York 27.

SERVICES AND FACILITIES

STUDENT HEALTH SERVICE

A physical examination (including X-ray and tuberculin tests) will be given each student in the professional courses during the first session of attendance. Further physical

6 • SERVICES AND FACILITIES

examinations will be given during the training period, whenever it is deemed advisable.

Students requiring hospitalization will be taken care of either in the wards of the Medical Center, or elsewhere, under a hospitalization insurance policy.

Daily office hours are held for sick students by the Student Health Service, Room 2-200, Vanderbilt Clinic. Members of the Health Service are available to attend ill students if they live near the Medical Center.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge as a center for the religious and social activities of the students. On the main and upper floors, reached by the campus entrance, are the offices of the Chaplain and his staff and of the three religious counselors. These floors also contain an auditorium, a lounge, meeting room, kitchen, and other facilities.

UNIVERSITY LIBRARIES

The physical and occupational therapy collection of reference books, periodicals, and pamphlets is housed in the Medical Library, which occupies parts of the three lower floors in the College of Physicians and Surgeons building. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works, through interlibrary loans, and through its unique bibliographic service.

The library contains approximately two hundred and ten thousand volumes of books and journals. More than twenty-four hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the schools of Medicine, Dental and Oral Surgery, Nursing, Public Health and Administrative Medicine, Physical and Occupational Therapy, and in the hospitals of the Medical Center.

The libraries on Morningside Heights, containing more than two million volumes, are open to all students of physical and occupational therapy. The main collection is housed in Butler Library, and special and departmental collections are located in various other buildings on the campus. They include collections on biology, education, engineering, psychology, sociology, and other subjects related to physical and occupational therapy and supplement the special collections available in the College of Physicians and Surgeons.

Leaflets describing the collections and services of the University Libraries are available in any of the library reading rooms. The Medical Library and all other libraries post their hours of opening and closing.

THE INSTITUTE FOR THE CRIPPLED AND DISABLED

The Institute for the Crippled and Disabled, located at 400 First Avenue, is affiliated with Columbia University and offers broad clinical and educational facilities for the training of physical therapy and occupational therapy students. An outstanding collection of reference books, periodicals, and pamphlets concerning the handicapped, their problems, and their rehabilitation is housed here, available to students in occupational and physical therapy at all times. An occupational therapy teaching unit, established at the Institute, is used for instruction and houses a skills library. Special equipment for the instruction of kinesiology and for the instruction and laboratory practice of massage and exercise is provided for the students.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 A.M. to 5:30 P.M.; Saturdays, 8:45 A.M. to 1:30 P.M.

STUDENT ACTIVITIES

The Physical Therapy and Occupational Therapy Clubs are the student organizations in which activities of a recreational, social, and professional nature are carried on. Within these clubs each class of students has its own organization and officers with representatives on the University Student Council.

The Columbia University Student Council, composed of elected representatives from the students of the several schools and faculties of the University, represents the students in matters affecting the student body as a whole, with the object of promoting cooperation and understanding among the students, faculty, and administration.

Students are encouraged to utilize the educational and cultural opportunities offered throughout the University campus and elsewhere in New York City.

Graduates of the physical and occupational therapy programs have alumni associations, which in turn are eligible for group membership in the Alumni Federation of Columbia University.

STUDENT AID

LOAN FUNDS

Loan funds are provided in a limited amount for the assistance of students, but it is the general policy to grant loans only to students who have satisfactorily completed at least one session of residence at the University. Application is made on a blank which may be obtained from the Office of the Bursar, 310 University Hall. Applications for loans for the winter session should be filed by September 15; for the spring session, by January 15.

EMPLOYMENT

The University Placement Bureau is that department of the University through which men and women students and graduates are referred to suitable positions during their attendance at the University and after graduation. A booklet describing the facilities of the Placement Bureau and the more general types of employment opportunities available will be mailed upon request. Communications should be addressed to the Director of the University Placement Bureau, 407 West 117th Street, Columbia University, New York 27, N.Y.

The Physical and Occupational Therapy Office maintains a listing of positions throughout the country available to graduate therapists. Current graduates and alumni are encouraged to refer to the office for these positions.

POSTGRADUATE COURSE IN CEREBRAL PALSY

Cerebral Palsy 101 (fall term) and *R101* (spring term). Nine weeks, full time. Fees: \$200 plus \$10 University fee. Eight points of academic credit for students with suitable

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prerequisites. For qualified occupational and physical therapists with working experience. Other ancillary medical personnel may be admitted on an individual basis.

Varied aspects of the problem are presented during three weeks of lectures and demonstrations by approximately thirty instructors. During the next six weeks, four days a week of clinical experience are supplemented by one day of discussion and review guided by the course supervisors. The course endeavors to provide the student with a sound neurological background as a basis for critical thinking.

This course is sponsored by United Cerebral Palsy Associations, Incorporated. A listing of sources for scholarship aid is available. Further information, including dates, and application forms are available from the Office of the Dean, College of Physicians and Surgeons, 630 West 168th Street, New York 32, New York.

PHYSICAL THERAPY

ADMINISTRATIVE OFFICERS

- GRAYSON KIRK, Ph.D., LL.D. *President of the University*
- JOHN A. KROUT, Ph.D., L.H.D., LL.D. . . *Vice President and Provost of the University*
- WILLARD C. RAPPEYE, A.M., M.D., Sc.D., Med.Sc.D. . . . *Vice President in Charge of Medical Affairs; Dean, Faculty of Medicine*
- ROBERT C. DARLING, M.D. *Professor of Physical Medicine and Rehabilitation; Executive Officer, Department of Physical Medicine and Rehabilitation*
- WILLIAM BENHAM SNOW, M.D. . . . *Professor of Physical Medicine; Medical Director, Courses in Physical and Occupational Therapy*
- MARY E. CALLAHAN, A.M. *Assistant Professor and Director, Training for Physical Therapists*
- GLADYS L. JAMESON, A.M. *Instructor and Associate Director, Training for Physical Therapists*

OFFICERS OF INSTRUCTION

- MARGUERITE ABBOTT, O.T.R., *Instructor in Occupational Therapy; B.S., Tufts; Graduate, Boston School of Occupational Therapy*
- GEORGE B. AMBROSE, *Instructor in Orthopedic Surgery; A.B., M.D., Columbia*
- WILLIAM AMOLS, *Associate in Neurology; A.B., M.D., New York University*
- GUSTAV J. BECK, *Instructor in Medicine; B.S., Columbia; M.D., New York University*
- MARY E. CALLAHAN, *Assistant Professor of Physical Therapy; B.S., New York University; A.M., Columbia; Graduate, Clinton Hospital School of Nursing; Certificate in Physical Therapy, Posse Institute*
- ROBERT J. CAMPBELL, *Assistant in Psychiatry; A.B., Wisconsin; M.D., Columbia*
- MARY A. COVER, *Instructor in Physical Therapy; Graduate, Sargent College; Certificate in Physical Therapy, Walter Reed Hospital*
- FREDERICK S. CRAIG, *Instructor in Orthopedic Surgery; M.D., Buffalo*
- GEORGE F. CRICKELAIR, *Instructor in Surgery; A.B., M.D., Wisconsin*
- ROBERT C. DARLING, *Professor of Physical Medicine and Rehabilitation; A.B., M.D., Harvard*
- RUTH DICKINSON, *Instructor in Physical Therapy; B.S., Russell Sage; A.M., Certificate in Physical Therapy, Columbia*
- NICHOLAS DI SALVO, *Assistant Professor of Physiology; B.S., College of the City of New York; D.D.S., Ph.D., Columbia*
- HERBERT O. ELFTMAN, *Associate Professor of Anatomy; A.B., A.M., California; Ph.D., Columbia*
- MARIE LOUISE FRANCISCUS, O.T.R., *Assistant Professor of Occupational Therapy; Director, Training for Occupational Therapists; B.S., Ohio State; A.M., Columbia; Graduate, Philadelphia School of Occupational Therapy*
- ALEXANDER GRACIA, *Instructor in Orthopedic Surgery; B.S., College of the City of New York; M.D., Long Island College of Medicine*
- A. DAVID GUREWITSCH, *Associate Clinical Professor of Rehabilitation Medicine; M.D., Basel*
- MORTON HOBERMAN, *Assistant Clinical Professor of Physical Medicine and Rehabilitation; B.S., New York University; M.B., M.D., Wayne*
- WILLIAM A. HORWITZ, *Associate Professor of Clinical Psychiatry; M.D., Albany Medical College; Sc.D., Med.Sc.D., Columbia*
- GLADYS L. JAMESON, *Instructor in Physical Therapy; A.B., Syracuse; A.M., New York University; Certificate in Physical Therapy, Columbia*
- VIRGINIA T. KILBURN, O.T.R., *Instructor in Occupational Therapy; Associate Director, Training for Occupational Therapists; A.B., Wellesley; Certificate in Occupational Therapy, Columbia*
- MARION D. LAIRD, *Instructor in Obstetrics and Gynecology; B.A., Queens, Ontario; M.D., Toronto*
- STANLEY LESSE, *Instructor in Neurology; A.B., Pennsylvania; M.D., Jefferson*
- LEONARD LEVINE, *Assistant in Physiology; B.S., Rutgers*
- MILOS J. LOTA, *Instructor in Physical Medicine and Rehabilitation; M.D., Masaryk University*
- HARRISON L. McLAUGHLIN, *Professor of Clinical Orthopedic Surgery; M.D., Queens University Medical College*

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- J. LOWRY MILLER, *Associate Clinical Professor of Dermatology*; A.B., North Carolina; M.D., Pennsylvania
- CHARLES R. NOBACK, *Associate Professor of Anatomy*; B.S., Cornell; M.S., New York University; Ph.D., Minnesota
- ALEXANDER D. PAPAS, *Instructor in Orthopedic Surgery*; A.B., M.D., Columbia
- ISABEL ROBINAU, O.T.R., *Instructor in Occupational Therapy*; A.B., Barnard; A.M., Certificate in Occupational Therapy, New York University
- BERTRAM J. SANGER, *Associate Clinical Professor of Medicine*; A.B., Texas; M.D., Johns Hopkins
- KATHERINE T. SAN JULIAN, *Associate in Physical Therapy*; A.B., New York University; A.M., Certificate in Physical Therapy, Columbia
- DANIEL SCIARRA, *Associate Professor of Clinical Neurology*; A.B., M.D., Harvard
- MEYER H. SLATKIN, *Instructor in Dermatology*; B.S., College of the City of New York; M.D., Edinburgh
- FREDERICK M. SMITH, *Associate Professor of Clinical Orthopedic Surgery*; A.B., A.M., Yale; M.D., Med.Sc.D., Columbia
- WILLIAM BENHAM SNOW, *Professor of Physical Medicine*; M.D., Long Island College of Medicine
- BLANCHE TALMUD, *Instructor in Physical Therapy*; B.S., Certificate in Physical Therapy, New York University
- ARTHUR B. VOORHEES, Jr., *Instructor in Surgery*; M.D., Columbia
- SONYA E. WEBER, *Instructor in Physical Medicine and Rehabilitation*; A.B., Vienna; Sc.D., Eastern Reserve
- HELEN P. WHITE, O.T.R., *Instructor in Occupational Therapy*; A.B., Michigan; A.M., New York University; Graduate, Philadelphia School of Occupational Therapy
- VIRGINIA N. WILKING, *Instructor in Psychiatry*; A.B., Bryn Mawr; M.D., Columbia
- JOHN A. WOOD, *Assistant in Medicine*; A.B., M.D., Harvard

SPECIAL LECTURERS

- ARTHUR ABRAMSON, Chief, Physical Medicine Rehabilitation Service, Bronx Veterans Administration Hospital; B.S., M.D., C.M., McGill
- OLAV AUSTLID, Acting Director, Physical Medicine, Hospital for Special Surgery; M.D., Vienna
- EDITH H. BROKAW, O.T.R., Consultant in Occupational Therapy; Graduate, Philadelphia School of Occupational Therapy
- SIGNE BRUNNSTROM, Consultant in Amputee Training, Institute of Physical Medicine and Rehabilitation; B.S., Uppsala College, Sweden; Physical Therapy, Royal Gymnastic Central Institute, Sweden; A.M., New York University
- ELIZABETH M. CARRICK, Instructor, New York School of Social Work; B.S., Ohio State; A.M., New York School of Social Work
- JON EISENSEN, Lecturer in Otolaryngology; A.B., College of the City of New York; A.M., Ph.D., Columbia
- MINNIE M. GENN, Pediatric Psychiatric Clinic; B.S., Boston University; Ed.D., Harvard
- CHARLES R. GOLDSTINE, Director, Prosthetic and Orthopedic Appliance Shops, Institute for the Crippled and Disabled
- MILDRED HARRIS, A.B., Vassar; A.M., Columbia; Certificate in Physical Therapy, Hospital for Special Surgery
- EDWARD F. HARTUNG, Assistant Clinical Professor of Medicine, New York University Post-Graduate Medical School; A.B., M.D., Columbia
- JETTA HENDIN, Physical Therapist, Columbia-Presbyterian Medical Center; B.S., Manitoba; Certificate in Physical Therapy, Hospital for Special Surgery
- HELEN HENNESSY, Orthopedic Consultant and Supervisor of Physical Therapy, Visiting Nurse Service of New York; Graduate, Yale School of Nursing; B.S., Columbia; Certificate in Physical Therapy, Hospital for the Ruptured and Crippled
- SHULAMITH KASTEIN, Speech Pathologist, Department of Otolaryngology, Columbia-Presbyterian Medical Center; Diploma, Vienna
- HENRY KESSLER, Director, The Kessler Institute for Rehabilitation; A.B., M.D., Cornell; A.M., Ph.D., Columbia
- LUTIE C. LEAVELL, Associate Professor of Nursing Education, Teachers College; B.S., A.M., Columbia
- JACOB MEISLIN, Chief, Physical Medicine and Rehabilitation, Franklin Delano Roosevelt Hospital; B.S., College of the City of New York; M.D., Lausanne
- JOSEPH E. SNYDER, Assistant Vice President, Presbyterian Hospital; A.B., Nebraska; M.D., Pennsylvania
- BERNARD STOLL, Chief of Physical Medicine and Rehabilitation Service, New York Veterans Hospital; B.S., M.D., New York University
- ALEXANDER VAN WEST, Assistant Professor of Psychology, Fairleigh Dickinson College; B.S., M.S., College of the City of New York; Ph.D., New York University

PHYSICAL THERAPY

Physical therapy is the treatment of disease and injury by the use of such agents as sunshine, water, exercise, massage, mechanical forces, and electricity. Functional rehabilitation of persons injured by disease or accident is a pressing medical need; the skillful application of physical therapy following injury will do much to shorten the time of disability. The ultimate aim of any treatment is the maximal rehabilitation and adjustment of the patient. The success of this type of treatment is dependent upon the therapist's knowledge, care, and precision in the administration of the intelligent medical prescription.

The course of study here described gives the student a basic knowledge of the normal functions of the human body and of the pathology of those diseases and injuries in which physical therapy can be helpful in the optimum rehabilitation of the patient. In addition to theoretical classroom instruction and demonstrations, students observe treatment procedures and receive practice in teaching hospitals under University supervision.

The curriculum is planned to serve the educational needs of students working towards the Bachelor of Science degree or towards the Certificate of Training in Physical Therapy.

The Bachelor of Science degree is offered upon satisfactory completion of the full Junior and Senior program, which includes clinical experience. This program is superimposed upon two years of college work in liberal arts with a minimum of sixty semester credits including the proper science prerequisites.

The Certificate of Training in Physical Therapy is offered upon satisfactory completion of the programs (academic and clinical) prescribed for students of advanced standing. This program is superimposed upon the background of one of the following:

1. Bachelor's degree from an accredited college or university
2. Graduation from a nationally accredited professional school of nursing

Graduates of either program will have had a minimum of four years' post-secondary education study including special professional courses in physical therapy. Minimum standards for approved schools of physical therapy are set by the American Medical Association through the Council on Medical Education and Hospitals. Graduates of either program are eligible for admission to the examination of the American Registry of Physical Therapists and for membership in the American Physical Therapy Association.

Many states require licensing or registration of physical therapists, for which examinations are usually held at intervals during the year. A student should become familiar with the requirements in his state so that any required examination may be taken as soon as possible after graduation.

The law in New York State requires that a graduate must pass the qualifying examination, conducted by the Department of Education of the State of New York. This examination is usually held in February, June, and October of each year. According to the law in New York State only those persons who are citizens or who have filed intentions of becoming citizens of the United States may be considered for admission to the examination.

ADMISSION REQUIREMENTS

Students are admitted in September only. Admission to the professional courses is open to qualified students from nineteen to thirty-five years of age. In subjects taken at other institutions for which transfer credit is allowed, a grade of C or better is required. The ability to swim is required for both programs of study in the second semester. Students unable to swim at the time of admission are responsible for securing instruction for

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themselves before the second semester. Applicants for admission must be graduates of approved high schools or the equivalent, and then must satisfy *one* of the following requirements:

Candidates for the degree course of study:

Two years or sixty semester credits of work in a college approved by Columbia University. Specific admission requirements include:

Six semester credits in biological science

Four semester credits in physics and/or chemistry (preferably both)

Six semester credits in psychology

Candidates for the advanced standing course of study:

- (a) Graduation from an approved college with at least a Bachelor of Science or Bachelor of Arts degree with science requirements as follows:

Eight semester credits in biological science

Six semester credits in physics and/or chemistry (preferably both)

Ten semester credits in social science (of which six must be in psychology)

Or

- (b) Graduation from a nationally accredited professional school of nursing with courses carrying college credit in the biological and physical sciences. Courses in the humanities and social sciences are a desirable background.

ADMISSION PROCEDURE

Forms to be used in making application for admission may be obtained by writing to the Physical Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. Such applications should be filed several months in advance of the time at which students wish to begin their studies.

Transcripts of all post-secondary education should be forwarded by the registrar of the respective schools directly to the Director of Training for Physical Therapists.

A personal interview will be arranged for each applicant.

ESTIMATED EXPENSES

<i>University Expenses (total program)</i>	<i>Degree Program (two years)</i>	<i>Advanced Standing Program (one year)</i>
Tuition	\$1,800	\$900
University fees	96	48
Clinical supervisory fee	24	12
Books, materials, equipment, uniforms	115	100
Health and hospital fee	50	25
<i>Total</i>	<u>\$2,085</u>	<u>\$1,085</u>

Living Expenses (per academic year)

Room	\$320-\$455
Board	550
Subway and bus fares (within program)	65
<i>Total</i>	<u>\$935-\$1,070</u>

During summer clinical practice periods, the amount of living expenses will vary depending upon the accommodations provided by the medical institution to which the student is assigned.

PROGRAMS OF STUDY IN PHYSICAL THERAPY

DEGREE PROGRAM

Junior Year: Winter Session

<i>Anatomy</i> 155	Human anatomy	3
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2
<i>Massage</i> 3	Essentials of massage and techniques of relaxation	3
<i>Neuroanatomy</i> 95	Anatomy of the nervous system	2
<i>Orientation</i> 39	Professional ethics and institutional organization	1
<i>Physics</i> 111	Physics applied to physical medicine	2
<i>Physiology</i> 157	Aspects of human physiology	2
<i>Psychology</i> 41	Child development	2
		<i>Total points</i> 17

Junior Year: Spring Session

<i>Clinical Experience</i> 2	Introduction to clinical experience	2
<i>Exercise</i> 112	Therapeutic exercise, including underwater techniques	4
<i>Hydrotherapy</i> 18	Theory and practice, including neuropsychiatric techniques	1
<i>Neurology</i> 106	Clinical neurology	2
<i>Orthopedics</i> 136	Survey of orthopedics	2
<i>Psychiatry</i> 102	Elementary psychiatry	3
<i>Thermotherapy</i> 10	Heat application and radiation	1
	Elective in administration and techniques of recreation	2
		<i>Total points</i> 17

June, July, and September: Clinical observation, instruction, and supervised practice

Senior Year: Winter Session

<i>Clinical Experience</i> 3	Supervised clinical practice	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>Nursing Procedures</i> 17	Simple bandaging, dressings, asepsis, and other techniques	1
<i>Orientation</i> 41	Seminar on social work and human behavior	1
<i>Pathology</i> 31	Elementary studies in pathology	1
<i>Psychiatry</i> 101	Psychosomatic aspects of physical medicine	1
<i>Speech</i> 163	Principles and practice of speech science	2
	Elective in English, communication skills, or public speaking and discussion	3
	Elective chosen with the approval of the adviser	2
		<i>Total points</i> 15

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Senior Year: Spring Session

<i>Biology 253b (T.C.)</i>	Anatomy and physiology	1
<i>Clinical Applications 130</i>	Survey of medical and surgical conditions in relation to physical medicine	2
<i>Clinical Experience 4</i>	Supervised clinical practice (continued)	2
<i>Electrotherapy 14</i>	Theory and practice of electrotherapy	2
<i>Orientation 16</i>	Seminar	2
<i>Physical Therapy 116</i>	Practical application of physical therapy	2
<i>Rehabilitation 150</i>	Rehabilitation techniques and problems of the handicapped	2
	Elective	2
<i>Total points</i>		15

ADVANCED STANDING PROGRAM

Winter Session

<i>Anatomy 155</i>	Human anatomy	3
<i>Clinical Subjects 101</i>	General medicine and surgery	2
<i>Kinesiology 105</i>	Applied anatomy and kinesiology	2
<i>Massage 3</i>	Essentials of massage and techniques of relaxation	3
<i>Neuroanatomy 95</i>	Anatomy of the nervous system	2
<i>Nursing Procedures 17</i>	Simple bandaging, dressings, asepsis, and other techniques	1
<i>Orientation 39</i>	Professional ethics and institutional organization	1
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Physics 111</i>	Physics applied to physical medicine	2
<i>Physiology 157</i>	Aspects of human physiology	2
<i>Total points</i>		19

Spring Session

<i>Clinical Applications 130</i>	Survey of medical and surgical conditions in relation to physical medicine	2
<i>Electrotherapy 14</i>	Theory and practice of electrotherapy	2
<i>Exercise 112</i>	Therapeutic exercise including underwater techniques	4
<i>Hydrotherapy 18</i>	Theory and practice, including neuropsychiatric techniques	1
<i>Neurology 106</i>	Clinical neurology	2
<i>Orientation 16</i>	Seminar	1
<i>Orthopedics 136</i>	Survey of orthopedics	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Rehabilitation 150</i>	Rehabilitation techniques and problems of the handicapped	2
<i>Thermotherapy 10</i>	Heat application and radiation	1
<i>Total points</i>		19

June, July, August, and September: Clinical instruction and supervised experience

HOSPITALS AFFILIATED FOR CLINICAL PRACTICE

Attendance in the hospitals and clinics listed below is concurrent with regular classroom work in the winter and spring sessions. In addition, all students are required to spend a period during the summer in full-time clinical practice. During this period students attend lectures, clinics, and staff meetings, receive supervised practical experience in physical therapy, and are introduced to related treatment departments.

BLYTHEDALE, Valhalla, N.Y.

Jacob Reingold, *Executive Director*
A. David Gurewitsch, M.D., *Medical Director*
Irmgard Bartenieff, *Coordinator of Therapy*
Carroll Wardlaw, *Head Physical Therapist*

BRONX VETERANS HOSPITAL, New York, N.Y.

Alfred Ebel, M.D., *Chief, Physical Medicine and Rehabilitation Service*
Morris Vogel, *Chief of Physical Therapy*

BURKE FOUNDATION CONVALESCENT HOME, White Plains, N.Y.

George Brush, *Superintendent*
Edward J. Lorenze, M.D., *Medical Director*
Anthony De Rosa, *Chief Physical Therapist*

CHILDREN'S COUNTRY HOME, Westfield, N. J.

Mrs. Harry A. Kniffen, *President*
Frieda R. Voorhies, *Chief, Physical Therapy Department*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N.Y.

Alvin J. Binkert, *Vice President and General Manager*
William Benham Snow, M.D., *Director, Clinical Physical Medicine*
Mary A. Cover, *Chief Physical Therapist*

HOSPITAL FOR CHRONIC ILLNESS, Rocky Hill, Conn.

A. Kara Rossiliano, M.D., *Acting Chief, Physical Medicine and Rehabilitation*
Herbert Jones, *Supervisor of Physical Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N.Y.

Willis C. Gorthy, *Director*
A. David Gurewitsch, *Director of Medical Services*
Blanche Talmud, *Supervising Therapist*

INSTITUTE OF PHYSICAL MEDICINE AND REHABILITATION, New York University-Bellevue Medical Center, New York, N.Y.

Howard Rusk, M.D., *Director*
Donald A. Covalt, M.D., *Clinical Director*
Jack M. Hofkosh, *Supervisor, Physical Therapy Department*

JEWISH CHRONIC DISEASE HOSPITAL, Brooklyn, N.Y.

Joseph B. Rogoff, *Director, Physical Medicine and Rehabilitation*
Murray Chrystal, *Administrative Assistant and Chief Physical Therapist*

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KESSLER INSTITUTE FOR REHABILITATION, West Orange, N.J.

William K. Page, Jr., *Administrator*
Henry H. Kessler, M.D., *Medical Director*
Harold Potts, *Director of Physical Therapy*

MARINE HOSPITAL, UNITED STATES PUBLIC HEALTH SERVICE, New York, N.Y.

Alfred J. Rucci, M.D., *Chief of Surgery*
Esther Anderson, *Chief Physical Therapist*

MIDDLESEX REHABILITATION AND POLIO HOSPITAL, North Brunswick, N.J.

Maurice Dorsen, Ph.D., *Administrator*
Norman Reitman, M.D., *Chief of Medical Staff*
Michael R. Sofranko, *Chief Physical Therapist*

MORRIS MEMORIAL HOSPITAL, Milton, W. Va.

George I. Mattix, *Administrator*
(Mrs.) Georgia Traub, *Chief Physical Therapist*

NEW YORK HOSPITAL, New York, N.Y.

Olaf Austlid, M.D., *Acting Director of Physical Medicine*
Margaret Valentine Rennison, *Supervisor of Physical Therapy*

NEW YORK REGIONAL OFFICE, VETERANS ADMINISTRATION, RAY CLINICS, New York, N.Y.

Irving Tepperberg, M.D., *Chief, Physical Medicine Rehabilitation Service*
Elmer Marjay, M.D., *Chief, Physical Medicine Group*
G. DiNubila, *Chief Physical Therapist*

NEW YORK STATE REHABILITATION HOSPITAL, West Haverstraw, N.Y.

Austin J. Canning, M.D., *Director*
Morton Hoberman, M.D., *Principal Physician, Physical Medicine and Rehabilitation*
Margaret A. O'Neill, *Director, Department of Physical Therapy*
Erbert Cicenía, *Director, Rehabilitation Section*

P.S. #85, Bronx, N.Y.

William Benham Snow, M.D., *Medical Director*
Jessie Armolino, *Teacher Coordinator*
Nancy DuBois, *Clinical Coordinator*

ST. BARNABAS HOSPITAL FOR CHRONIC DISEASES, Bronx, N.Y.

A. P. Merrill, M.D., M.H.A., *Superintendent*
Robert A. Muller, M.D., *Director, Department of Physical Medicine and Rehabilitation*
Manfred E. Lange, *Chief Physical Therapist*

ST. GILES CONVALESCENT HOME AND SCHOOL, Garden City, N.Y.

Charles R. Douglas, *General Manager*
Pearl B. Shulver, *Coordinator of Therapies*

VETERANS ADMINISTRATION HOSPITAL, Brooklyn, N.Y.

Alto Eisert, M.D., *Chief, Physical Medicine and Rehabilitation*
Theodore F. Childs, *Chief of Physical Therapy*

VETERANS ADMINISTRATION HOSPITAL, Manhattan, N.Y.

William J. Dann, *Manager*

Bernard Stoll, M.D., *Chief, Physical Medicine and Rehabilitation Service*

Owen Testor, *Chief, Physical Therapy*

VETERANS ADMINISTRATION HOSPITAL, Montrose, N.Y.

Richard L. Harris, M.D., *Manager*

Jack Meislin, M.D., *Chief, Physical Medicine and Rehabilitation Service*

Henry Stano, *Chief, Physical Therapy*

VISITING NURSE ASSOCIATION, New York, N.Y.

Mary McCall Tyrie, *Director of Education*

Helen Hennessy, *Orthopedic Consultant; Supervisor of Physical Therapy*

COURSES OF INSTRUCTION

For electives and additional courses open to students in physical therapy, consult the bulletins of Teachers College and the School of General Studies.

The University reserves the right to withdraw or modify these courses or to change the instructors as may be necessary.

DEGREE PROGRAM

Junior Year: Winter Session

***Anatomy 155—Human anatomy.** Lectures and laboratory. 3 pts. Professors Elftman and Noback.

Anatomy of the human body with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter being based on prepared dissection of the human body.

***Kinesiology 105—Applied anatomy and kinesiology.** Lectures and laboratory. 2 pts. Misses Jameson, Brunnstrom, and others.

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement. Analysis of skills used in daily activities and other activities in physical and occupational therapy.

***Massage 3—Essentials of massage and techniques of relaxation.** Lectures and laboratory. 3 pts. Professors Callahan and Gurewitsch; Misses Dickinson and Harris.

The theory and technique of massage and relaxation with demonstration and practice.

***Neuroanatomy 95—Anatomy of the nervous system.** 2 pts. Professor Sciarra.

Anatomy of the nervous system of man, including the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

***Orientation 39—Professional ethics and institutional organization.** 1 pt. Professor Snow.

Lectures governing appropriate conduct of medical assistants in the routine of their work. Orientation of medical workers toward institutional contacts.

***Physics 111—Physics applied to physical medicine.** Lectures and demonstrations. 2 pts. Dr. Lota.

Basic kinetics, radiation, hydro-dynamics, and electricity as they apply to the practice of physical therapy.

***Physiology 157—Aspects of human physiology.** Lectures and demonstrations. 2 pts. Professor DiSalvo.

The physiology of the nervous system, of circulation, and of respiration. Emphasis on the physiology of exercise to meet the needs of the occupational therapy and physical therapy student.

Psychology 41—Child development. 2 pts. Dr. Wilking.

The mental, motor, social, and emotional development of the child. Special attention is given to a consideration of stress situations encountered by the child and his methods of handling them.

Prerequisite: General psychology.

Junior Year: Spring Session

Clinical Experience 2—Introduction to clinical experience. 2 pts.

Orientation to institutions, physical therapy departments, patients, keeping records, and in giving massage and exercise.

* Also an advanced standing course.

***Exercise 112—Therapeutic exercise, including underwater techniques.** Lectures and laboratory. 2 or 4 pts. Professors Snow, Darling, and Hoberman, Mrs. Weber, and associates.

The basic principles of therapeutic exercise, including physiology of exercise, muscle evaluation and reeducation, tests and measurements, and underwater exercises.

***Hydrotherapy 18—Theory and practice, including neuropsychiatric techniques.** Lectures and laboratory. 1 pt. Mrs. San Julian.

The physiological effects of water as a therapeutic agent; hydrotherapeutic techniques and other applications.

***Neurology 106—Clinical neurology.** 2 pts. Instructor to be announced.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

***Orthopedics 136—Orthopedics.** 2 pts. Drs. Craig and Papas.

Lectures and clinical presentations descriptive of orthopedic conditions, including discussion of related problems—social, medical, surgical, and rehabilitation.

***Psychiatry 102—Elementary psychiatry.** 3 pts. Drs. Lesse, Amols, and Van West.

Etiology and symptomatology of the major and minor psychoses, including the psychoneuroses and their treatment. Lectures with clinical demonstrations and field trips.

Work for the third point includes a survey of psychological tests and measurements and interpretation of their results for the physical and occupational therapist.

***Thermotherapy 10—Heat application and radiation.** 1 pt. Dr. Stoll.

A study of spectral radiation and the theory and technique of application of radiation of various types.

Senior Year: Winter Session

Clinical Experience 3—Supervised clinical practice. 2 pts.

Lectures, observation, demonstrations, and supervised practice in various clinics of physical medicine and rehabilitation.

***Clinical Subjects 101—General medicine and surgery.** 2 pts. Drs. Wood and Voorhees.

General medicine. Dr. Wood.

A survey of the more common diseases with emphasis on pulmonary tuberculosis and cardiac disorders. Lectures deal primarily with the relationship of pathological physiology to the development of signs and symptoms of disease.

General surgery. Dr. Voorhees.

A survey of those common diseases for which there is surgical emphasis.

***Electrotherapy 14—Theory and practice of electrotherapy.** 2 pts. Dr. Lota and special lecturers.

Theory and principles of technique of the diagnostic and therapeutic uses of high frequency, galvanic, and other low frequency currents.

***Nursing Procedures 17—Bandaging and dressings.** Lectures and laboratory. 1 pt. Mrs. San Julian.

The techniques of bandaging, asepsis, handling of dressings, and bedside conduct.

Orientation 41—Seminar on social work and human behavior. 1 pt. Mrs. Carrick.

Orientation to social work as related to what we learn about human behavior and its relationship to physical therapy.

***Pathology 31—Elementary studies in pathology.** 1 pt. Instructor to be announced.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alterations of function resulting from these influences.

* Also an advanced standing course.

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Psychiatry 101—Psychosomatic aspects of physical medicine. 1 pt. Dr. Campbell.

A consideration of the emotional aspects of all disease.

Senior Year: Spring Session

Biology 253b (T.C.)—Anatomy and physiology. Lectures and laboratory. 1 pt. Miss Leavell.

A functional and anatomical study of the bone-muscle-joint units, including nerve and blood supply.

Prerequisite: *Biology 153* or equivalent. Laboratory fee: \$1.00.

Clinical Experience 4—Supervised clinical experience. 2 pts.

Continuation of *Clinical Experience 3*.

***Clinical Applications 130**—Survey of medical and surgical conditions in relation to physical medicine. Lectures and demonstrations. 2 pts. Professor Snow and associates.

This course gives the student a closer acquaintance with disease as it occurs in the practice of physical medicine. Specialists discuss the problems in their fields of practice, including particular pathology and the needs of physical medicine. This analysis is followed by prescriptive physical therapy to cover these special indications. There will be further clinical practice in hospitals.

***Orientation 16**—Seminar. 1 or 2 pts. Professor Callahan and Misses Kilburn and Jamenson.

Lecture and discussion of topics of importance to the therapist in practice, including organization and administration in departments of physical therapy; job placement and recent developments in physical medicine. Seniors will register for two points which will include a general survey of occupational therapy, with emphasis on theoretical principles as applied to major disability areas.

Physical Therapy 116—Practical application of physical therapy. 2 pts. Professor Snow and associates.

Integration and application of the fundamental principles and skills already learned to specific cases.

Rehabilitation 150—Rehabilitation techniques and problems of the handicapped. Lectures and demonstrations. 2 pts. Miss Talmud.

Theory, practice, and evaluation of functional activities; types, application, and care of supportive apparatus.

Speech 163—Principles and practice of speech science. 2 pts. Dr. Eisensohn.

This course covers the basic anatomy and physiology underlying speech science. Consideration will be given to the pathology of speech abnormalities and the therapeutic approach to their correction.

ADVANCED STANDING PROGRAM

All courses marked with an asterisk in the degree program, Junior and Senior Years, must be taken.

* Also an advanced standing course.

OCCUPATIONAL THERAPY

ADMINISTRATIVE OFFICERS

- GRAYSON KIRK, Ph.D., LL.D. *President of the University*
- JOHN A. KROUT, Ph.D., L.H.D., LL.D. . . *Vice President and Provost of the University*
- WILLARD C. RAPPEYE, A.M., M.D., Sc.D., Med.Sc.D. . . . *Vice President in Charge of Medical Affairs; Dean, Faculty of Medicine*
- ROBERT C. DARLING, M.D. *Professor of Physical Medicine and Rehabilitation; Executive Officer, Department of Physical Medicine and Rehabilitation*
- WILLIAM BENHAM SNOW, M.D. . . . *Professor of Physical Medicine; Medical Director, Courses in Physical and Occupational Therapy*
- MARIE LOUISE FRANCISCUS, B.S., A.M. *Assistant Professor and Director, Training for Occupational Therapists*
- VIRGINIA T. KILBURN, A.B. *Instructor and Associate Director, Training for Occupational Therapists*

OFFICERS OF INSTRUCTION

- MARGUERITE ABBOTT, O.T.R., *Instructor in Occupational Therapy; B.S., Tufts; Graduate, Boston School of Occupational Therapy*
- WILLIAM AMOLS, *Associate in Neurology; A.B., M.D., New York University*
- MICHAEL ANTELL, *Assistant Professor of Public Health Practice; M.D., Long Island College of Medicine; M.P.H., Harvard*
- MARY E. CALLAHAN, *Assistant Professor of Physical Therapy; Director, Training for Physical Therapists; B.S., New York University; A.M., Columbia; Graduate, Clinton Hospital School of Nursing; Certificate in Physical Therapy, Posse Institute*
- GRAHAM CLARK, *Associate in Ophthalmology; B.S., M.D., Virginia*
- FREDERICK S. CRAIG, *Instructor in Orthopedic Surgery; M.D., Buffalo*
- ROBERT C. DARLING, *Professor of Physical Medicine and Rehabilitation; A.B., M.D., Harvard*
- RUTH DICKINSON, *Instructor in Physical Therapy; B.S., Russell Sage; A.M., Certificate in Physical Therapy, Columbia*
- NICHOLAS A. DI SALVO, *Assistant Professor of Physiology; B.S., College of the City of New York; D.D.S., Ph.D., Columbia*
- HERBERT O. ELFTMAN, *Associate Professor of Anatomy; A.B., A.M., California; Ph.D., Columbia*
- DOROTHY H. ERICSON, O.T.R., *Instructor in Occupational Therapy; B.S. in Occupational Therapy, Kansas*
- MARIE LOUISE FRANCISCUS, O.T.R., *Assistant Professor of Occupational Therapy; B.S., Ohio State; A.M., Columbia; Graduate, Philadelphia School of Occupational Therapy*
- EDWARD J. FREY, *Lecturer in Graphic Arts, School of General Studies*
- LESTER GELB, *Instructor in Psychiatry; Director, Mental Hygiene Clinic and Social Adjustment Service, Institute for the Crippled and Disabled; A.B., New York University; M.D., Long Island College of Medicine*
- KENNETH F. HERROLD, *Professor of Education, Teachers College; A.B., Bucknell; M.S.P.H., Michigan; Ed.D., Columbia*
- MORTON HOBERMAN, *Assistant Clinical Professor of Physical Medicine and Rehabilitation; B.S., New York University; M.B., M.D., Wayne*
- GLADYS L. JAMESON, *Instructor in Physical Therapy; Associate Director, Training for Physical Therapists; A.B., Syracuse; A.M., New York University; Certificate in Physical Therapy, Columbia*
- VIRGINIA T. KILBURN, O.T.R., *Instructor in Occupational Therapy; A.B., Wellesley; Certificate in Occupational Therapy, Columbia*
- STANLEY LESSE, *Instructor in Neurology; A.B., Pennsylvania; M.D., Jefferson*
- LEONARD LEVINE, *Assistant in Physiology; B.S., Rutgers*
- PAUL LINDENBERG, *Instructor in Otolaryngology; M.D., Vienna*
- YASHA LISENCO, *Instructor in Fine and Industrial Arts, Teachers College; B.S., College of the City of New York; A.M., Columbia*
- MELVIN LOOS, *Adjunct Professor of Graphic Arts, School of General Studies; Manager, Printing Office, Columbia University Press*
- WILLIAM J. MAHONEY, *Instructor in Fine and Industrial Arts, Teachers College; B.S., A.M., Columbia*

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CHARLES R. NOBACK, *Associate Professor of Anatomy*; B.S., Cornell; M.S., New York University; Ph.D., Minnesota

ALEXANDER D. PAPAS, *Instructor in Orthopedic Surgery*; A.B., M.D., Columbia

ISABEL ROBINAULT, O.T.R., *Instructor in Occupational Therapy*; A.B., Barnard; A.M., Certificate in Occupational Therapy, New York University

KATHERINE T. SAN JULIAN, *Associate in Physical Therapy*; A.B., New York University; A.M., Certificate in Physical Therapy, Columbia

PATRICIA A. SCHMIDT, O.T.R., *Assistant in Occupational Therapy*; B.S., Diploma in Occupational Therapy, Milwaukee-Downer

DANIEL SCIARRA, *Associate Professor of Clinical Neurology*; A.B., M.D., Harvard

WILLIAM BENHAM SNOW, *Professor of Physical Medicine*; M.D., Long Island College of Medicine

BLANCHE TALMUD, *Instructor in Physical Therapy*; B.S., Certificate in Physical Therapy, New York University

ALICE R. TREI, O.T.R., *Instructor in Occupational Therapy*; B.S., New York University; Certificate in Occupational Therapy, Columbia

ARTHUR B. VOORHEES, JR., *Instructor in Surgery*; M.D., Columbia

SONYA E. WEBER, *Instructor in Physical Medicine and Rehabilitation*; A.B., Vienna; Sc.D., Eastern Reserve

THELMA L. WELLERSON, O.T.R., *Instructor in Occupational Therapy*; B.S. in Occupational Therapy, A.M., Columbia

HELEN P. WHITE, O.T.R., *Instructor in Occupational Therapy*; A.B., Michigan; A.M., New York University; Graduate, Philadelphia School of Occupational Therapy

VIRGINIA N. WILKING, *Instructor in Psychiatry*; A.B., Bryn Mawr; M.D., Columbia

JOHN A. WOOD, *Assistant in Medicine*; A.B., M.D., Harvard

SPECIAL LECTURERS

SOPHIA R. ACKERMAN, O.T.R., Chief, Occupational Therapy, New York Veterans Administration Hospital; B.S., Certificate in Occupational Therapy, New York University; A.M., Columbia

NORMAN ACTON, Executive Director, United States Committee for the United Nations Children's Fund; B.S., Illinois

NORMA A. ALESSANDRINI, O.T.R., Director, Children's Recreation Service, Bellevue Hospital; B.S., Cornell; Certificate in Occupational Therapy, Columbia

LOTTIE I. BARTH, O.T.R., Director of Occupational Therapy, Montefiore Hospital; B.S., Certificate in Occupational Therapy, New York University

EDITH H. BROKAW, O.T.R., Consultant in Occupational Therapy; Graduate, Philadelphia School of Occupational Therapy

SIGNE BRUNNSTROM, Consultant in Amputee Training, Institute of Physical Medicine and Rehabilitation; B.S., Uppsala College, Sweden; Physical Therapy, Royal Gymnastic Central Institute, Sweden; A.M., New York University

HAROLD CHENVEN, Chief Clinical Psychologist, Institute for the Crippled and Disabled; A.B., Brooklyn; A.M., Ph.D., New York University

CECILE L. CROTTY, Recreation Instructor, New York State Psychiatric Institute; Diploma, Posse-Nissen College of Physical Education

MARJORIE FISH, O.T.R., Executive Director, American Occupational Therapy Association; A.B., Swarthmore; A.M., Columbia; Graduate, Boston School of Occupational Therapy

CLAIRE S. GLASSER, O.T.R., Instructor in Occupational Therapy, New York University; B.S. in Occupational Therapy, Columbia

CHARLES GOLDSTINE, Director, Prosthetic and Orthopedic Appliance Shop, Institute for the Crippled and Disabled

WILLIS C. GORTHY, Director, Institute for the Crippled and Disabled; C.E., Cornell

JACK GRANOFFSKY, Assistant Associate Chief, Psychosocial Services, Institute of Physical Medicine and Rehabilitation; A.B., Brooklyn; A.M., New York University; Ph.D., Yeshiva

MARJORIE GROSS, Chief, Cerebral Palsy Clinic, Institute for the Crippled and Disabled; Certificate in Physical Therapy, Hospital for Special Surgery

MARY FRANCES HEERMANS, O.T.R., Educational Secretary, American Occupational Therapy Association; A.B., M.S., Illinois; Certificate in Occupational Therapy, Southern California

MARGARETTE N. HELMLE, Director, Rehabilitation Service, Brooklyn Tuberculosis and Health Association

SHULAMITH KASTEIN, Speech Pathologist, Department of Otolaryngology, Columbia-Presbyterian Medical Center; Diploma, Vienna

ELEANOR C. KILLE, O.T.R., Occupational Therapy Supervisor, Southbury Training School; Graduate, Philadelphia School of Occupational Therapy

AGNES D. NESS, O.T.R., Teacher, Vocational Department, Lexington School for the Deaf; B.S., Certificate in Occupational Therapy, New York University; A.M., Columbia

JAY O'BRIEN, Director, Vocational Evaluation and Guidance Unit, Institute for the Crippled and Disabled; B.S., Ohio State

JANET PINNER, Director of Selective Placement Service, New York State Employment Service; A.B., Adelphi

MORTON A. SEIDENFELD, Director of Psychological Services and Public Education, National Foundation for Infantile Paralysis; B.S., Washington; M.S., Ph.D., Pennsylvania

MILDRED A. SPARGO, O.T.R., Director, Occupational Therapy, Payne Whitney Psychiatric Clinic of New York Hospital; Graduate, Boston School of Occupational Therapy

EMIL TRAPANI, Director, Industrial Rehabilitation Service, Institute for the Crippled and Disabled

ALEXANDER VAN WEST, Assistant Professor of Psychology, Fairleigh Dickinson; B.S., M.S., College of the City of New York; Ph.D., New York University

SOL WARREN, State Coordinator of Internship Training, Division of Vocational Rehabilitation, New York State Department of Education; B.S., Brooklyn; A.M., Columbia; Ph.D., New York University

OLIVE WEINBACH, O.T.R., Supervisor of Occupational Therapy, Bellevue Hospital; Graduate, Philadelphia School of Occupational Therapy

OCCUPATIONAL THERAPY

Occupational therapy is the administration of medically prescribed treatment in the form of supervised activity for persons injured in body or mind by accident or disease. Creative and manual arts, recreational activities, educational pursuits, prevocational exploration, and the activities of daily living are used in occupational therapy programs to improve physical function and to promote mental, social, and economic adjustment of the patient. Occupational therapy plays an integral part in modern rehabilitation programs for the mentally or physically ill.

Two courses of study are offered: one of twenty-five months' duration leading to the Bachelor of Science degree, and one of seventeen months' duration leading to a certificate. See "Admission Requirements" below.

The curriculum consists of classroom work devoted to courses in the biological, social, and clinical sciences providing a scientific, medical, and theoretical background. At the same time instruction is given in the techniques of creative and manual arts, activities of daily living, recreational, educational, and prevocational activities as they enter into the actual practice of occupational therapy. Correlated with theoretical classroom instruction, students observe treatment procedures in the occupational therapy units of several hospitals and institutions of the metropolitan area. A program of student clerkships in conjunction with the same institutions permits students to study treatment problems of specific diagnostic classifications as they are introduced in the medical lecture series, by means of the case study and laboratory method. In addition, there is a nine-month period of clinical practice in teaching hospitals under the supervision of the University.

The courses described in this bulletin meet the requirements set forth by the American Occupational Therapy Association and by the Council on Medical Education and Hospitals of the American Medical Association, as published in their *Essentials of an Acceptable School of Occupational Therapy*, which regulates the standards by which schools are accredited. Graduates of both the degree course and the certificate course are eligible for the examination leading to admission to the Registry of Occupational Therapists maintained by the American Occupational Therapy Association. This examination is held throughout the country in January and June of each year. Admission to the registry is the certification of a therapist to practice.

ADMISSION REQUIREMENTS

Students will be admitted in September only. Applicants for admission must be between the ages of nineteen and thirty-five years. Both men and women are admitted to professional courses, depending upon individual qualifications. Demands made on the physical endurance and emotional stamina of the therapist require a record of good health. Applicants must be graduates of an approved high school or the equivalent, and must satisfy one of the following requirements:

- A. *Candidates for the Degree.* Students who have satisfactorily completed at least two years of work in a college approved by Columbia University may register for the degree course, to be completed in approximately two years—sixteen months of theoretical training and nine months of clinical practice. Specific admission requirements include:
 1. Sixty semester credits in liberal arts, including a minimum of:
 - a. Six semester credits in biology (including coverage in zoology), chemistry, or physics.

- b. Three semester credits in psychology.
- c. Three semester credits in sociology.
3. A grade of C or better is required to receive transfer credit.

NOTE:—Suggested preprofessional curriculum is given on page 26.

B. *Candidates for the Certificate.* Students who hold a baccalaureate degree acceptable to Columbia University may register in the advanced standing course, to be completed in approximately seventeen months—eight months of theoretical training and nine months of clinical practice. Specific admission requirements include:

1. A Bachelor's degree. (See note below.)
2. Courses completed for the above degree should include the following minima:
 - a. Six semester credits in biology (including coverage in zoology), chemistry, or physics.
 - b. Six semester credits in psychology.
 - c. Three semester credits in sociology.

NOTE:—Graduates with accredited professional training in fields closely related to occupational therapy may be admitted to the advanced standing program.

ADMISSION PROCEDURE

Forms to be used in making application for admission may be obtained by writing to the Occupational Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. Applications should be filed several months in advance of the time at which students wish to begin their studies. Transcripts of all post-secondary school education should be forwarded by the registrars of the respective schools directly to the Director of Occupational Therapy. A personal interview will be arranged for each applicant.

ESTIMATED EXPENSES

<i>University Expenses (total program)</i>	<i>Degree Program (two years)</i>	<i>Advanced Standing Program (one year)</i>
Tuition	\$1,800	\$900
University fees	96	48
Clinical supervisory fee	24	12
Books, materials, equipment, uniforms	240	160
Health and hospital fee	50	25
<i>Total</i>	\$2,210	\$1,145

Living Expenses (per academic year)

Room	\$320-\$455
Board	550
Subway and bus fares (within program)	65
<i>Total</i>	\$935-\$1,070

Fees for materials and equipment in studio classes are payable at the time of registration and are subject to change in accord with market prices.

During clinical practice students spend approximately four months of the period in residence in hospitals where they receive full maintenance (room, board, and laundry). In some instances a maintenance arrangement is possible for a longer period of time.

There will be nominal transportation expenses for students in hospital affiliations outside the local area.

SUGGESTED PREPROFESSIONAL CURRICULUM

The following suggestions may be helpful to the student or guidance counsellor in planning the two-year college program prior to admission to the professional course leading to the Bachelor of Science Degree:

Six semester credits in each of the following fields: English composition, English literature, biology (including zoology), chemistry or physics, psychology, and sociology.

The remaining twenty-four credits might be chosen from such fields as speech, languages, social and political sciences, economics.

Transfer credit is usually not allowed for courses in physical education nor for any specific professional courses. A maximum of twelve credits will be allowed for courses completed in music and fine and industrial arts.

PROGRAMS OF STUDY IN OCCUPATIONAL THERAPY

Outlines of the two programs of study are given below. In the degree program, two years are spent on the campus in theoretical and technical study. To integrate the theoretical information, the student spends nine to twelve months of full-time clinical practice in psychiatric, general, pediatric, orthopedic, and tuberculosis services or hospitals. The summer periods are utilized for required clinical practice, thereby enabling the student to complete the full program in approximately two years.

The program for advanced-standing students, which is completed in seventeen months, is based on a combination of junior and senior courses, followed by nine to twelve months devoted to clinical practice.

DEGREE PROGRAM

Junior Year: Winter Session

<i>O.T. Theory 11</i>	Orientation to occupational therapy	2
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Psychology 41</i>	Child development	2
<i>Physiology 55</i>	Human physiology	2
<i>Neuroanatomy 95</i>	Anatomy of the nervous system	2
<i>Anatomy 155</i>	Human anatomy	3
<i>O.T. Fine Arts 11</i>	Needlecrafts	2
<i>O.T. Fine Arts 101</i>	Fundamentals of art and design	2
<i>O.T. Fine Arts 163</i>	Elementary woodwork	2
		—
		<i>Total points</i>
		18

Junior Year: Spring Session

<i>O.T. Theory 12</i>	Application in major medical fields	2
<i>Psychiatry 102</i>	Elementary psychiatry	3
<i>Neurology 106</i>	Clinical neurology	2
<i>O.T. Fine Arts 14</i>	General crafts	3
<i>O.T. Fine Arts 26</i>	Pottery	2
<i>O.T. Fine Arts 30</i>	Elementary weaving	3
<i>O.T. Clerkship 2</i>	Case evaluations of psychiatric patients	2
	Elective in administration and techniques of recreation	1
		—
		<i>Total points</i>
		18

June, July, and August: Clinical practice in psychiatry

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Senior Year: Winter Session

<i>O.T. Theory</i> 21	Departmental organization and administration	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2
<i>Rehabilitation</i> 115	Occupational analysis	2
<i>T.C. Ed.</i> 200 GD	Introduction to group development	2
<i>O.T. Fine Arts</i> 105	Interpretive design	2
<i>O.T. Fine Arts</i> 165	Advanced woodwork	2
<i>O.T. Graphic Arts</i> 1	Art of hand printing	2
<i>O.T. Clerkship</i> 3	Case evaluations of medical and surgical patients	2
		—
		<i>Total points</i> 18

Senior Year: Spring Session

<i>O.T. Theory</i> 24	Application to orthopedic and neurological disabilities	2
<i>Clinical Subjects</i> 102	Orthopedics and public health	2
<i>Exercise</i> 112	Therapeutic exercise	2
<i>Rehabilitation</i> 118	Agencies and personnel in rehabilitation	2
<i>Rehabilitation</i> 126	Activities of daily living	2
<i>O.T. Fine Arts</i> 18	Leatherwork	2
<i>O.T. Fine Arts</i> 168	Metalwork and jewelry	2
<i>O.T. Clerkship</i> 4	Physical and vocational rehabilitation	2
		2
		—
		<i>Total points</i> 18

July–January: Six months of clinical practice in specified areas of service

ADVANCED STANDING PROGRAM

Winter Session

<i>O.T. Theory</i> 11	Orientation to occupational therapy	2
<i>Physiology</i> 55	Basic human physiology	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2
<i>Anatomy</i> 155	Human anatomy	3
<i>O.T. Fine Arts</i> 15	General crafts and needlecrafts	3
<i>O.T. Fine Arts</i> 17	Leatherwork	1
<i>O.T. Fine Arts</i> 35	Weaving	2
<i>O.T. Fine Arts</i> 167	Woodwork	2
		—
		<i>Total points</i> 19

Spring Session

<i>O.T. Theory 12</i>	Application in major medical fields	2
<i>O.T. Theory 24</i>	Application to orthopedic and neurological disabilities	2
<i>Clinical Subjects 102</i>	Orthopedics and public health	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Neurology 106</i>	Clinical neurology	2
<i>Rehabilitation 118</i>	Agencies and personnel in rehabilitation	2
<i>O.T. Graphic Arts 1R</i>	Art of hand printing	1
<i>O.T. Fine Arts 26</i>	Pottery	2
<i>O.T. Fine Arts 106</i>	Interpretive design	2
<i>O.T. Fine Arts 168</i>	Metal work and jewelry	2

Total points 19

July–April: Nine months of clinical practice in specified areas of service

Additional requirements for all advanced standing students:

1. Attendance at a weekly seminar during the spring session. Discussions in this seminar are concerned with advanced theory, principles, and practice of occupational therapy.
2. A paper to be written during the clinical practice period in an area of particular interest to the student and related to clinical experiences. This paper is to be submitted two months prior to the completion of clinical practice.

COURSES OF INSTRUCTION

For electives and additional courses open to students in occupational therapy, consult the bulletins of Teachers College and the School of General Studies.

The University reserves the right to withdraw or modify these courses or to change the instructors as may be necessary.

DEGREE PROGRAM

Junior Year: Winter Session

***Occupational Therapy 11—Orientation to occupational therapy.** 2 pts. Professor Franciscus and special lecturers.

A general survey of the field. History and development of occupational therapy with special references to present uses and techniques. Supplementary reading and reports. Orientation visits to hospital services.

Pathology 31—Elementary studies in pathology. 1 pt. Instructor to be announced.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alterations of function resulting from these influences.

Psychology 41—Child Development. 2 pts. Dr. Wilking.

The mental, motor, social, and emotional development of the child. Special attention is given to a consideration of stress situations encountered by the child and his methods of handling these.

Prerequisite: General psychology.

***Physiology 55—Human physiology.** 2 pts. Mr. Levine.

The dynamics of human processes. The interrelationships of the various bodily systems are stressed.

Neuroanatomy 95—Anatomy of the nervous system. 2 pts. Professor Sciarra.

The anatomy of the nervous system of man, including the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

***Anatomy 155—Human anatomy.** 3 pts. Professors Elftman and Noback.

Anatomy of the human body with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter based on prepared dissection of the human body.

O.T. Fine Arts 11—Needlecrafts. 2 pts. Misses Ericson and Schmidt.

This course includes instruction in clothing construction, pattern alteration, hand and machine sewing. Also included are the various forms of embroidery, canvas stitchery, appliqué, knitting, and crocheting. Materials charge.

O.T. Fine Arts 101—Fundamentals of art and design. 2 pts. Mr. Lisenco.

A general survey course in the arts, which stresses the fundamentals of design as applied to crafts, commercial design, drawing, and painting. Museum and store visits. Lectures, readings, and discussions. Materials charge.

O.T. Fine Arts 163—Elementary woodwork. 2 pts. Mr. Lisenco.

This course is designed to orient the student to the fundamental principles of woodworking with hand tools. Careful workmanship and strong construction are stressed. Materials charge.

Junior Year: Spring Session

***Occupational Therapy 12—Application in major medical fields.** 2 pts. Professor Franciscus and special lecturers.

This course stresses the principles and practice of occupational therapy techniques as applied to the tuberculous, the mentally ill, and to patients with medical and surgical diagnoses. Supplementary readings and reports. Field visits.

* Also an advanced standing course.

***Psychiatry 102—Elementary psychiatry.** 2 or 3 pts. Drs. Lesse, Amols, and Van West.

Etiology and symptomatology of the major and minor psychoses including the psychoneuroses and their treatment. Lectures with clinical demonstrations and field trips.

Work for the third point includes a survey of psychological tests and measurements, and interpretation of their results for the physical and occupational therapist.

***Neurology 106—Clinical neurology.** 2 pts. Instructor to be announced.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

O.T. Fine Arts 14—General crafts. 1, 2, or 3 pts. Misses Ericson and Schmidt.

This course includes many of the smaller crafts, such as: cord knotting, netting, braiding, rugmaking, chair seating, chip carving, and plastic fabrication. Emphasis is placed on basic techniques and their use in occupational therapy. Museum visit.

Materials charge.

***O.T. Fine Arts 26—Pottery.** 2 pts. Mr. Mahoney.

An introduction to the possibilities and methods of using clay to create functional pottery with coils, with the potter's wheel, and by casting. Moldmaking, methods of decorating and glazing, and firing of kilns are studied for practical use in teaching.

Materials charge.

O.T. Fine Arts 30—Elementary weaving. 3 pts. Misses Ericson and Schmidt.

Problems include the finger weaves and small appliances, such as cards, inkle looms, and rigid frames. Stress is laid on the mechanics and methods of weaving on two- and four-harness looms. A museum trip.

Materials charge.

O.T. Clerkship 2—Case evaluations of psychiatric patients. 2 pts. Miss Kilburn (co-ordinator).

Correlation of instruction in psychology, psychiatry, and occupational therapy theory by assigned patient work-ups in occupational therapy units. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion. Required written reports and field trips.

Senior Year: Winter Session

Occupational Therapy 21—Departmental organization and administration. 2 pts. Miss Kilburn and special lecturers.

Study of departmental organization and administration in the various medical fields. The techniques of application of occupational therapy in geriatrics and pediatrics are included in this course. Supplementary reading, reports, and field trips.

***Clinical Subjects 101—General medicine and surgery.** 2 pts. Drs. Wood and Voorhees.

General medicine. Dr. Wood.

A survey of the more common diseases with emphasis on pulmonary tuberculosis and cardiac disorders. Lectures deal primarily with the relationship of pathological physiology to the development of signs and symptoms of disease.

General surgery. Dr. Voorhees.

A survey of those common diseases for which there is surgical emphasis.

***Kinesiology 105—Applied anatomy and kinesiology.** 2 pts. Misses Jameson, Brunnstrom, and others.

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement. Analysis of skills used in daily activities and other activities in physical and occupational therapy. Lectures and laboratory.

Rehabilitation 115—Occupational analysis. 2 pts. Dr. Granofsky and Mr. O'Brien.

An orientation to a variety of occupational situations and to the physical, mental, and emotional demands made on the worker. Analyses are made of industrial processes and the duties of the home-maker, and consideration is given to the principles of energy conservation. The place of occupational therapy in prevocational exploration and evaluation is discussed. Films and field visits.

* Also an advanced standing course.

T.C. Ed. 200 GD—Introduction to group development. 2 or 3 pts. Professor Herrold and others.

Orientation to concepts, values, and skills related to group development, group process, and guidance. Analyses of the functioning of individual members, the group as a unit, consultants, and other resources. Group methods differentiated from other procedures of guidance, teaching and learning, and administration. Opportunities for practice and evaluation of skills in small groups during class sessions.

***O.T. Fine Arts 105-106—Interpretive design.** 2 pts. Misses Ericson and Schmidt.

A course in which the principles of design are applied to occupational therapy media, such as block printing, stenciling, silk screening, and cardboard construction. Museum visit.

Materials charge.

O.T. Fine Arts 165—Advanced woodwork. 2 pts. Mr. Lisenco.

This course is a continuation of *O.T. Fine Arts 163* and includes an introduction to the uses of power machinery.

Materials charge.

***O.T. Graphic Arts 1-1R—Art of hand printing.** 1 or 2 pts. Professor Loos and Mr. Frey.

The fundamentals of printing, including instruction in type faces, proofreading, and presswork. The laboratory affords practical application of hand typesetting and operation of hand and foot presses. Films, demonstrations, and field trips.

O.T. Clerkship 3—Case evaluations of medical and surgical patients. 2 pts. Miss Kilburn (coordinator).

Correlation of instruction in medicine, surgery, pediatrics, and occupational therapy theory by assigned patient work-ups in occupational therapy units and ward situations. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion. Written reports and field trips.

Senior Year: Spring Session

***Occupational Therapy 24—Application to orthopedic and neurological disabilities.** 2 pts. Misses Abbott, Wellerson, and guest instructors.

Lecture and laboratory course in application of techniques in treatment of physical injuries and diseases including orthopedic and neurological disabilities. Demonstration and return demonstration by the student.

***Clinical Subjects 102—Orthopedics and public health.** 2 pts. Drs. Craig, Papas, and Antell.

Orthopedics. Drs. Craig and Papas.

Lectures and clinical presentations descriptive of orthopedic conditions, including discussion of related problems—social, medical, surgical, and rehabilitation.

Public Health. Dr. Antell.

An orientation to preventive medicine and public health problems, including communicable and contagious diseases.

Exercise 112—Therapeutic exercise. 2 to 5 pts. Professors Snow, Darling, Hoberman, and Mrs. Weber, and associates.

The basic principles of therapeutic exercise including the physiology of exercise, muscle evaluation and reeducation, and tests and measurements. Lectures and laboratory.

***Rehabilitation 118—Agencies and personnel in rehabilitation.** 2 pts. Miss Kilburn (coordinator), Drs. Clark and Lindenberg, and special lecturers.

Lectures concerning community resources for the physical, psychological, social, and vocational rehabilitation of the handicapped. Legislation and organization of both public and private health agencies are studied. Included is consideration of some of the more common pathologies affecting vision and hearing, and rehabilitation techniques.

* Also an advanced standing course.

Rehabilitation 126—Activities of daily living. 2 pts. Miss Ericson.

A laboratory course to acquaint the student with some of the materials, equipment, and techniques to aid the handicapped in attaining maximum self-sufficiency. Consideration is given to the needs of persons with motor, sensory, and emotional handicaps, as well as energy conservation techniques for the cardiac and tuberculous. Also includes some experience in making functional splints.

Materials charge.

***O.T. Fine Arts 17-18—Leatherwork.** 1 or 2 pts. Misses Ericson and Schmidt.

A course in hand leatherwork. Techniques of decoration and construction of small projects as used in occupational therapy.

Materials charge.

***O.T. Fine Arts 168—Metalwork and jewelry.** 2 pts. Mr. Lisenco.

A course in the basic techniques of hammered metal and jewelry. Elementary principles of mechanical drawing.

Materials charge.

O.T. Clerkship 4—Physical and vocational rehabilitation. 2 pts. Professor Franciscus (coordinator).

A study of the roles and contributions of the various professional disciplines and the interrelationships of the patient service departments in a rehabilitation center. Through observation of, and active participation in, patient treatment, by attendance at clinical staff conferences and a weekly class seminar, and by written reports, students are guided to an understanding of the breadth of problems confronting the disabled and the many skills and disciplines available to help in overcoming them.

ADVANCED STANDING PROGRAM

Winter Session

All courses marked with an asterisk under Winter Session, Junior Year and Senior Year, must be taken. In addition:

O.T. Fine Arts 15—General crafts and needlecrafts. 1, 2, or 3 pts. Misses Ericson and Schmidt.

The general crafts section of this course includes cordage, plastics, wood carving, chair seating, and rugmaking. The needlecraft section is designed to supplement the student's knowledge and to guide her in the application of all types of needlework to occupational therapy.

Materials charge.

O.T. Fine Arts 17-18—Leatherwork. See Spring Session, Senior Year.**O.T. Fine Arts 35—Weaving.** 2 pts. Misses Ericson and Schmidt.

Techniques of loom and small appliance weaving are covered with particular emphasis on the mechanics of weaving and the application to occupational therapy situations. Acquaintance with the basic weaves, textures, and simple patterns are gained through the use of various fibers.

Materials charge.

O.T. Fine Arts 167—Woodwork. 2 pts. Mr. Lisenco.

A course designed to orient students in the fundamentals of woodworking and to develop a reasonable skill in the use of hand tools and finishing processes. An introduction to the use of power tools.

Materials charge.

Spring Session

All courses marked with an asterisk under Spring Session, Junior Year and Senior Year, must be taken. In addition:

O.T. Fine Arts 105-106—Interpretive design. See Winter Session, Senior Year.**O.T. Graphic Arts 1-1R—Art of hand printing.** See Winter Session, Senior Year.

* Also an advanced standing course.

HOSPITALS AND AGENCIES AFFILIATED FOR CLINICAL PRACTICE

The nine to twelve months of clinical practice consist of full-time practical experience in well-organized and carefully supervised occupational therapy departments under the immediate direction of registered occupational therapists. Clinical practice shall be completed within one year following termination of academic work. During this period students attend lectures, clinics, staff meetings, and orientation in related treatment departments, conduct special case studies, and meet other educational requirements.

CHILDREN'S HOSPITAL, Buffalo, N.Y.

Moir P. Tanner, *Director*

Jane E. Fogelsonger, O.T.R., *Director of Occupational Therapy*

CHILDREN'S REHABILITATION INSTITUTE, Reisterstown, Md.

Winthrop M. Phelps, M.D., *Medical Director*

Christopher H. Wiemer, *Executive Director*

Ruth W. Brunyate, O.T.R., *Director of Occupational Therapy*

COLUMBIA-PRESBYTERIAN MEDICAL CENTER HOSPITALS, New York, N.Y.

Alvin J. Binkert, *Vice President and General Manager*

William Benham Snow, M.D., *Director, Clinical Physical Medicine*

(Mrs.) Helen P. White, O.T.R., *Chief Occupational Therapist*

COMMUNITY WORKSHOPS OF RHODE ISLAND, INC., Providence, R. I.

(Mrs.) Iris W. Booth, *Executive Director*

(Mrs.) Eleanor M. Black, O.T.R., *Chief Occupational Therapist*

CONNECTICUT STATE HOSPITAL, Middletown, Conn.

Edgar C. Yerbury, M.D., *Superintendent*

Virginia W. Smith, O.T.R., *Supervisor of Occupational Therapy*

CURATIVE WORKSHOP, PHILADELPHIA SCHOOL OF OCCUPATIONAL THERAPY, Philadelphia, Pa.

Clare S. Spackman, O.T.R., *Director*

DELAWARE CURATIVE WORKSHOP, INC., Wilmington, Del.

Eleanor J. Bader, R.P.T., *Executive Director*

Anne S. Miller, O.T.R., *Chief Occupational Therapist*

DISTRICT OF COLUMBIA HEALTH DEPARTMENT, BUREAU OF MATERNAL AND CHILD HEALTH, Washington, D.C.

Handicapped and Crippled Children's Clinic

Philip A. E. Stebbing, M.D., *Superintendent*

Rena M. Graham, O.T.R., *Director of Occupational Therapy*

INSTITUTE FOR THE CRIPPLED AND DISABLED, New York, N.Y.

Willis C. Gorthy, *Director*

A. David Gurewitsch, M.D., *Director of Medical Services*

Thelma L. Wellerson, O.T.R., *Director of Occupational Therapy*

NEW YORK CITY DEPARTMENT OF HOSPITALS

Bruce B. Grynbaum, M.D., *Director of Rehabilitation and Physical Medicine*

Bellevue Hospital

(Mrs.) Olive W. Weinbach, O.T.R., *Supervisor of Occupational Therapy*

NEW YORK HOSPITAL, New York, N.Y.

Children's Clinic

S. Z. Levine, M.D., *Pediatrician in Chief*

Michi Yasumura, O.T.R., *Director of Pediatric Occupational Therapy*

Main Hospital

Henry N. Pratt, M.D., *Director*

Eva Mazur, O.T.R., *Director of Occupational Therapy*

Payne Whitney Psychiatric Clinic

Oskar Diethelm, M.D., *Psychiatrist in Chief*

Mildred A. Spargo, O.T.R., *Director of Occupational Therapy*

NEW YORK STATE DEPARTMENT OF HEALTH, DIVISION OF TUBERCULOSIS CONTROL

Robert E. Plunkett, M.D., *Assistant Commissioner*

M. Arlene Mellinger, O.T.R., *Supervisor of Occupational Therapy*

NEW YORK STATE DEPARTMENT OF MENTAL HYGIENE

Paul H. Hoch, *Commissioner*

Virginia M. Scullin, O.T.R., *Director of Occupational Therapy*

New York State Psychiatric Institute, New York, N.Y.

Lawrence C. Kolb, M.D., *Director*

(Mrs.) Alice R. Trei, O.T.R., *Senior Occupational Therapist*

NEW YORK STATE REHABILITATION HOSPITAL, West Haverstraw, N.Y.

Austin J. Canning, M.D., *Director*

Morton Hoberman, M.D., *Principal Physician, Physical Medicine and Rehabilitation*

Viola W. Svensson, O.T.R., *Director of Occupational Therapy*

NORWICH STATE HOSPITAL, Norwich, Conn.

Ronald H. Kettle, M.D., *Superintendent*

Harry Kromer, R.N., O.T.R., *Supervisor of Occupational Therapy*

REHABILITATION CENTER, LIBERTY MUTUAL INSURANCE CO., Boston, Mass.

Kenneth N. Palmer, *Manager*

Alexander P. Aitken, M.D., *Medical Director*

F. Elizabeth Shepard, O.T.R., *Director of Occupational Therapy*

U. S. ARMY HOSPITALS

Office of the Surgeon General, Washington, D.C.

Harriet S. Lee, Col., A.M.S.C.; *Chief, Army Medical Specialist Corps*

Myra L. McDaniel, Lt. Col., A.M.S.C.; *Chief Occupational Therapist, Army Medical Specialist Corps*

U. S. PUBLIC HEALTH SERVICE HOSPITAL, Boston, Mass.

Samuel J. Hall, M.D., *Medical Officer in Charge*

Margaret L. Blodgett, O.T.R., *Chief Occupational Therapist*

VETERANS ADMINISTRATION HOSPITALS

Central Office, Washington, D.C.

A.B.C. Knudson, M.D., *Chief, Physical Medicine and Rehabilitation Division*

George D. Frye, O.T.R., *Chief, Occupational Therapy Section*

CONDENSED ACADEMIC CALENDAR

The complete academic calendar for the academic year 1957-1958 may be obtained from the Secretary of the University. The following calendar relates only to students in the Courses for Physical Therapists and Occupational Therapists.

1957

- September 23 Monday, through September 25, Wednesday. Registration (including payment of fees) for the winter session. Students allowed to register after the period specified must pay a late fee.
- September 26 Thursday. Classes begin.
- October 5 Saturday. Last day for making changes in programs for the winter session.
- October 30 Wednesday. Award of October degrees and certificates.
- November 5 Tuesday. Election Day. Holiday.
- November 26 Tuesday. Annual Thanksgiving Service in St. Paul's Chapel.
- November 28 Thursday, through December 1, Sunday. Thanksgiving holidays.
- December 2 Monday. Last day for filing application or renewal of application for degrees and certificates to be awarded in February. The privilege of later application may be granted on payment of a late fee.
- December 23 Monday, through

1958

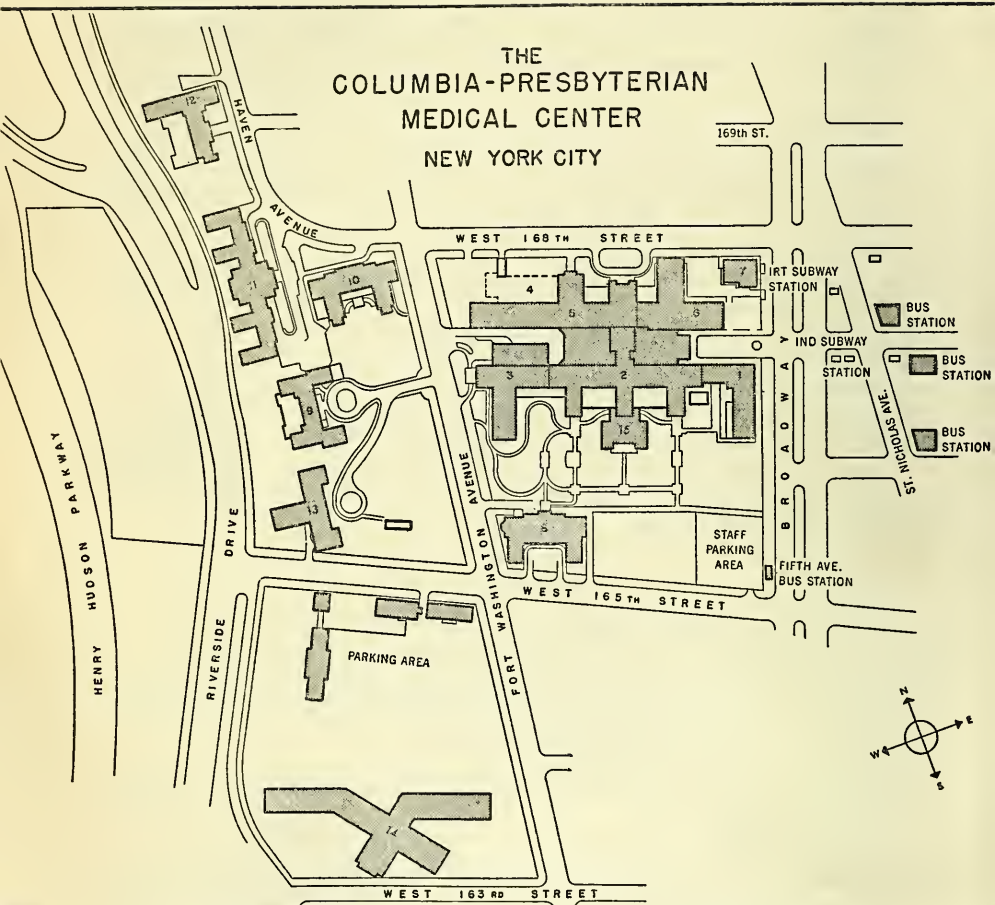
- January 5 Sunday. Christmas holidays.
- January 20 Monday, through January 30, Thursday. Midyear examinations.
- February 3 Monday through February 4, Tuesday. Registration (including payment of fees) for the spring session. Students allowed to register after the period specified must pay a late fee.
- February 5 Wednesday. Classes begin.
- February 15 Saturday. Last day for making changes in programs for the spring session.
- February 26 Wednesday. Award of February degrees and certificates.
- March 3 Monday. Last day for filing application or renewal of application for all degrees and certificates to be conferred in June. The privilege of later application may be granted on payment of a late fee.
- March 30 Sunday, through April 6, Sunday. Easter holidays.
- May 19 Monday, through May 29, Thursday. Final examinations.

COMMENCEMENT, JUNE 1 TO JUNE 3

- June 1 Sunday. Baccalaureate Service.
- June 3 Tuesday. Conferring of degrees and certificates.

-
- August 1 Friday. Last day for filing application or renewal of application for degrees and certificates to be awarded in October. The privilege of later application may be granted on payment of a late fee.

THE
COLUMBIA-PRESBYTERIAN
MEDICAL CENTER
NEW YORK CITY



- | | |
|--|---|
| 1. BABIES HOSPITAL | 7. N. Y. CITY DEPT. OF HEALTH
SCHOOL OF PUBLIC HEALTH AND
ADMINISTRATIVE MEDICINE |
| 2. PRESBYTERIAN HOSPITAL | 8. INSTITUTE OF OPHTHALMOLOGY |
| N. Y. ORTHOPAEDIC HOSPITAL | 9. MAXWELL HALL |
| SLOANE HOSPITAL | 10. NEUROLOGICAL INSTITUTE |
| SQUIER UROLOGICAL CLINIC | 11. N. Y. STATE PSYCHIATRIC INSTITUTE |
| 3. HARKNESS PAVILION | 12. BARD HALL |
| 4. POWER HOUSE | 13. HARKNESS MEMORIAL HALL |
| 5. COLLEGE OF PHYSICIANS AND
SURGEONS | 14. FRANCIS DELAFIELD HOSPITAL,
N. Y. C. |
| 6. VANDERBILT CLINIC
SCHOOL OF DENTAL AND ORAL
SURGERY | 15. PAULINE A. HARTFORD MEMORIAL
CHAPEL |

Columbia University Bulletin

Fifty-eighth Series, No. 5

February 1, 1958

ANNOUNCEMENT OF COURSES
FOR
PHYSICAL THERAPISTS

OCCUPATIONAL THERAPISTS
COLLEGE OF PHYSICIANS AND SURGEONS



1958-1959

COLUMBIA-PRESBYTERIAN MEDICAL CENTER
630 WEST 168TH STREET
NEW YORK 32, N.Y.

INFORMATION

Application blanks and further information about the courses in this bulletin may be obtained from the Office of Physical and Occupational Therapy, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. The office is open weekdays 9 A.M. to 5 P.M.; Saturdays by appointment. Telephone: WAdsworth 3-2500, extension 7941.

WINTER SESSION

September 25, 1958, through January 29, 1959
Registration—September 22 through 24

SPRING SESSION

February 4, 1959, through May 28, 1959
Registration—February 2 through February 3

COLUMBIA UNIVERSITY BULLETIN • SERIES 58 • NO. 5 • FEBRUARY 1, 1958 • 6,500 COPIES

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PHYSICAL THERAPY AND OCCUPATIONAL THERAPY

This bulletin describes two separate courses offered by Columbia University: Physical Therapy and Occupational Therapy. These courses are given at the College of Physicians and Surgeons and the Columbia-Presbyterian Medical Center under the auspices of the Department of Physical Medicine and Rehabilitation. The courses of study are approved by the Council on Medical Education and Hospitals of the American Medical Association and prepare the student to meet the qualifications for registration in either physical or occupational therapy. See pages 9-20 for physical therapy and pages 21-37 for occupational therapy.

ADMISSION

Prior to admission to professional courses in physical or occupational therapy, the applicant must have taken preprofessional subjects at an approved college of his choice to the extent of at least sixty semester credits. Should the student desire to complete this work at Columbia University, application should be made directly to Barnard College (undergraduate women), Columbia College (undergraduate men), or the School of General Studies (adult men and women).

Application for transfer to professional courses should be made on the official application form of the school in question and should be filed and accepted well in advance of the time the student expects to begin his studies. Acceptance of a student for admission is based on grounds of character and health as well as on the fulfillment of academic requirements. For further details on admission requirements and procedure see pages 11 and 24.

REGISTRATION

Before attending University courses, every student must register in person during the registration period which precedes each session. For the academic year 1958-1959 the registration periods are:

Winter session: Monday, September 22, through Wednesday, September 24.

Spring session: Monday, February 2, through Tuesday, February 3.

The registration procedure is as follows:

1. The student reports to the Office of Physical and Occupational Therapy on the third floor of the College of Physicians and Surgeons, 630 West 168th Street, and fills out various forms giving information required for University records.

2. He has his program approved by the director.

3. He takes his completed forms to the Office of the Registrar and pays his fees in the Office of the Bursar.

The Office of the Registrar is open from 9 A.M. to 5 P.M. daily except Saturdays and holidays, and on Saturday from 9 A.M. to 12 M.

FEES

Tuition fees, the University fee, and laboratory deposits are payable each session in advance and as part of registration. If they are paid after the last day of registration (see

2 • FEES

the Academic Calendar), they will not be reduced and a late fee of \$3.00 will be imposed. The student health and hospital fee is payable with the other fees for the winter session and is for the entire academic year.

The following fees, prescribed by statute for *each winter or spring session*, are subject to change at any time at the discretion of the Trustees:

University fee	
Up to four points, inclusive	\$ 6.00
Over four points to eight points, inclusive	12.00
Over eight points but under twelve points	18.00
Twelve points or more	24.00
With the proviso	
That in no instance shall the amount of the combined University fee and tuition fee be less than	50.00
Registration as engaged only in research	50.00
Tuition fee	
For all courses except where a special fee is fixed, per point	37.00
With the proviso that the fee for a program of fifteen or more points is	550.00
Clinical supervisory fee	12.00
Student health and hospital fee (see below)	25.00
Application fees and late fees	
Application for admission	10.00
Application for each deficiency or special examination	10.00
Application for renewal of application for a degree (see below)	1.00
Late registration	3.00
Late application for a deficiency or special examination	5.00
Late application, or renewal of application, for a degree or certificate	5.00

Rebates

The University fee, the student health and hospital fee, application fees, and late fees are not subject to rebate. If a student withdraws from the School, the Registrar *may* authorize a partial return of tuition fees. If a rebate is allowed, it will be reckoned from the day on which the Registrar receives written notice from the student.

A deposit for the use of lockers, keys, apparatus, material, and the like is required in certain courses.

Acceptance fee. Within two weeks after an applicant has been notified that his application has been accepted, he must notify the director that he intends to matriculate and accompany his communication with a check or money order for \$50, payable to Columbia University. This acceptance fee will be retained by the University and, if the applicant does not register for the following academic year, it will not be returned, unless the University for any reason cancels the acceptance. If he registers in the courses for physical and occupational therapy in the class to which he has been admitted, the amount of the acceptance fee will be deducted from his tuition fees.

Student health and hospital fee. This fee will be used to pay the annual premium of the Associated Hospital Service of New York for hospital insurance and to pay part of the cost of the student health service. Students who already have hospital insurance will not be charged the cost of the premium.

Renewal of application for a degree. An application for a degree (except doctoral

degrees) terminates at the next regular time for the issuance of diplomas subsequent to the date of filing, but it may be renewed for a fee of \$1.00 each time that the candidate chooses to come up for consideration.

GENERAL REGULATIONS

RESIDENCE

All women students under twenty-one years of age, who are not living at home or with relatives, are required to secure approval of their residence from the Directors. Information concerning desirable accommodations may be obtained from the Physical and Occupational Therapy Office (see also pages 4-5).

STUDENTS

Each person whose registration has been completed will be considered a student of the University during the session for which he is registered unless his connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he is first registered.

The privileges of the University are not available to any student until he has completed his registration. Since, under the University statutes, payment of fees is a part of registration, no student's registration is complete until his fees have been paid. No student is permitted to attend any University course for which he is not officially registered, nor may any student register after the stated period unless he obtains the written consent of the proper director.

ABSENCES

Students are held accountable for absences incurred owing to late enrollment. It is a student's duty to attend punctually each class or laboratory exercise in each course. For credit toward the certificate and degree, regular attendance is required in addition to the proficiency attested by classwork and examination.

Students whose religious duties conflict at any time with academic requirements should apply to the proper director for an equitable solution.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt by him of academic credits, his graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University, which is free to cancel his registration at any time on any grounds which it deems advisable. The disciplinary authority of the University is vested in the President in such cases as he deems proper, and, subject to the reserved powers of the President, in the dean of each faculty and the director of the work of each administrative board.

WITHDRAWAL

An honorable discharge will always be granted to any student in good academic standing, and not subject to discipline, who may desire to withdraw from the University; but

4 • HOUSING

no student under the age of twenty-one years shall be entitled to a discharge without the assent of his parent or guardian furnished in writing to the proper director. Students withdrawing are required to notify the Registrar in writing at once.

The director may, for reasons of weight, grant a leave of absence to a student in good standing.

GRADES AND CREDITS

The student's performance in a course is reported according to the following grades: A, excellent; B, good; C, fair; and F, failure. A, B, and C are passing grades counting for credit toward the degree or certificate and accepted as the basis for advancement to a higher course. A student who does not receive a mark of C or above in a prescribed course must repeat that course.

The mark MU is not a grade and simply implies that in the opinion of the instructor the student may be given the privilege of taking a deficiency examination. When this mark is given at the end of the winter session, it does not necessarily mean that the student may not pursue his courses in the spring session, but that he will get no credit for the course in question until he has received a definite passing grade.

LIVING ACCOMMODATIONS

The residence halls of the University are located on or immediately adjacent to the campus and afford easy access to libraries and classrooms as well as comfortable accommodations in an environment conducive to academic work. They serve also as a center of campus life and provide companionship for students of like interests. The University, therefore, desires its students to live whenever possible in the residence halls.

Within several of the residence halls are dining rooms maintained for all students and faculty members of the University.

Assignment of rooms is made on the session basis. Room payments are due at the beginning of each session, but in case of need other arrangements can be made.

Students coming from out of town to attend evening classes or those wishing to stay overnight at Columbia may secure accommodations by applying to the Livingston Hall Office (for men) or the Johnson Hall Office (for women).

Residence halls bulletins and application blanks for rooms may be obtained (for men) from the Men's Residence Halls Office, 125 Livingston Hall, Columbia University, New York 27; (for women) from the Johnson Hall Office, 411 West 116th Street, New York 27. The advance reservation deposit is payable upon receipt of room assignment. Checks must be made payable to Columbia University.

RESIDENCE FOR MEN

There are four University residence halls on South Quadrangle which have accommodations for approximately 1,670 men. Hartley Hall, Livingston Hall, and the lower floors of John Jay Hall are reserved for students in Columbia College; Furnald Hall, for law and graduate students; and the upper floors of John Jay Hall, for graduate and professional school students. Rates for the academic year range from \$260 to \$425. There are a few rooms available from \$200 to \$230 which are assigned to those students who indicate need. Application for these accommodations should be filed with the Men's Residence Halls Office, 125 Livingston Hall, Columbia University.

All rates are subject to revision if costs change greatly.

The main dining room is on the first floor of John Jay Hall. The lower John Jay

Lobby leads to the Lion's Den, a grillroom (open to both men and women students) with facilities for late breakfast, lunch, and dinner.

RESIDENCE FOR WOMEN

Johnson Hall is provided by the University as a residence for women students in the graduate and professional schools. A limited number of rooms are assigned to full-time undergraduate students who are matriculated for a degree. The Hall was erected and particularly designed for the comfort and convenience of women students. With its various social rooms, attractive dining room, and comfortable bedrooms, it offers pleasant conditions for University life. The rates for rooms range from \$340 to \$485 for the academic year. There are a limited number of suites (two adjoining rooms) from \$320 to \$415 per person. The rate for two meals a day, breakfast and dinner, is \$375 for the academic year. All rates are subject to change if costs increase greatly. Residents of Johnson Hall are required to take breakfast and dinner in the dining room of Johnson Hall.

OFF-CAMPUS ACCOMMODATIONS

Columbia University maintains a registry of off-campus accommodations, where the addresses of available furnished rooms in the neighborhood may be obtained. It is not possible to obtain listings by mail as these accommodations are for immediate rental; moreover, it is advisable that rooms be engaged only after personal inspection. The registry is for the use of faculty, staff, and students of the University, and each applicant must show a letter of admission or some other official Columbia correspondence to be eligible for this service. There is no charge to either the student or the landlord and all financial arrangements must be concluded between the applicant and the landlord. The registry is located in 115 Livingston Hall.

International House, a privately owned student residence near the campus, has accommodations for about five hundred students, both foreign and American. Rates for the academic year are \$345 to \$650. To be eligible for admission a student must be over twenty-one and must be registered for at least twelve points. Address the Committee on Admissions, International House, 500 Riverside Drive, New York 27.

SERVICES AND FACILITIES

STUDENT HEALTH SERVICE

A physical examination (including x-ray and tuberculin tests) will be given each student in the professional courses during the first session of attendance. Further physical examinations will be given during the training period, whenever it is deemed advisable.

Students requiring hospitalization will be taken care of either in the wards of the Medical Center, or elsewhere, under a hospitalization insurance policy.

Daily office hours are held for sick students by the Student Health Service, Room 2-200, Vanderbilt Clinic. Members of the Health Service are available to attend ill students if they live near the Medical Center.

EARL HALL

Earl Hall was given to Columbia University by the late William Earl Dodge as a center for the religious and social activities of the students. On the main and upper floors,

6 • SERVICES AND FACILITIES

reached by the campus entrance, are the offices of the Chaplain and his staff and of the three religious counselors. These floors also contain an auditorium, a lounge, meeting room, kitchen, and other facilities.

UNIVERSITY LIBRARIES

The physical and occupational therapy collection of reference books, periodicals, and pamphlets is housed in the Medical Library, which occupies parts of the three lower floors in the College of Physicians and Surgeons building. It provides current literature (both books and journals) for faculty and students, and it aids in research through its own collections of current and historical works, through interlibrary loans, and through its unique bibliographic service.

The library contains approximately two hundred and ten thousand volumes of books and journals. More than twenty-four hundred periodicals are received regularly. A professional library staff is available to aid students, faculty, and research workers in the schools of Medicine, Dental and Oral Surgery, Nursing, Public Health and Administrative Medicine, Physical and Occupational Therapy, and in the hospitals of the Medical Center.

The libraries on Morningside Heights, containing more than two million volumes, are open to all students of physical and occupational therapy. The main collection is housed in Butler Library, and special and departmental collections are located in various other buildings on the campus. They include collections on biology, education, engineering, psychology, sociology, and other subjects related to physical and occupational therapy and supplement the special collections available in the College of Physicians and Surgeons.

Leaflets describing the collections and services of the University Libraries are available in any of the library reading rooms. The Medical Library and all other libraries post their hours of opening and closing.

THE INSTITUTE FOR THE CRIPPLED AND DISABLED

The Institute for the Crippled and Disabled, located at 400 First Avenue, is affiliated with Columbia University and offers broad clinical and educational facilities for the training of physical therapy and occupational therapy students. An outstanding collection of reference books, periodicals, and pamphlets concerning the handicapped, their problems, and their rehabilitation is housed here, available to students in occupational and physical therapy at all times. An occupational therapy teaching unit, established at the Institute, is used for instruction and houses a skills library. Special equipment for the instruction of kinesiology and for the instruction and laboratory practice of massage and exercise is provided for the students.

MEDICAL CENTER BOOKSTORE

The Medical Center Bookstore, located on the second floor of the College of Physicians and Surgeons, is maintained for the convenience of the students and staff of the Medical Center schools and hospitals. The store carries a full stock of textbooks and all other student supplies. Substantial savings are effected whenever the rules of manufacturers and publishers permit. The store is open on weekdays from 8:45 A.M. to 5:30 P.M.; Saturdays, 8:45 A.M. to 1:30 P.M.

STUDENT ACTIVITIES

The Physical Therapy and Occupational Therapy Clubs are the student organizations in which activities of a recreational, social, and professional nature are carried on. Within these clubs each class of students has its own organization and officers with representatives on the University Student Council.

The Columbia University Student Council, composed of elected representatives from the students of the several schools and faculties of the University, represents the students in matters affecting the student body as a whole, with the object of promoting cooperation and understanding among the students, faculty, and administration.

Students are encouraged to utilize the educational and cultural opportunities offered throughout the University campus and elsewhere in New York City.

Graduates of the physical and occupational therapy programs have alumni associations, which in turn are eligible for group membership in the Alumni Federation of Columbia University.

STUDENT AID

LOAN FUNDS

Loan funds are provided in a limited amount for the assistance of students, but it is the general policy to grant loans only to students who have satisfactorily completed at least one session of residence at the University. Application is made on a blank which may be obtained from the Office of the Bursar, 310 University Hall. Applications for loans for the winter session should be filed by September 1; for the spring session, by January 2.

EMPLOYMENT

The University Placement Bureau is that department of the University through which men and women students and graduates are referred to suitable positions during their attendance at the University and after graduation. A booklet describing the facilities of the Placement Bureau and the more general types of employment opportunities available will be mailed upon request. Communications should be addressed to the Director of the University Placement Bureau, 407 West 117th Street, Columbia University, New York 27, N.Y.

The Physical and Occupational Therapy Office maintains a listing of positions throughout the country available to graduate therapists. Current graduates and alumni are encouraged to refer to the office for these positions.

POSTGRADUATE COURSE IN CEREBRAL PALSY

Cerebral Palsy 101 (fall term) and *R101* (spring term). Nine weeks, full time. Fees: \$200 plus \$10 University fee. Eight points of academic credit for students with suitable prerequisites. For qualified occupational and physical therapists with working experience. Other ancillary medical personnel may be admitted on an individual basis.

Varied aspects of the problem are presented during three weeks of lectures and demonstrations by approximately thirty instructors. During the next six weeks, four days a week of clinical experience are supplemented by one day of discussion and review

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guided by the course supervisors. The course endeavors to provide the student with a sound neurological background as a basis for critical thinking.

This course is sponsored by United Cerebral Palsy Associations, Incorporated. A listing of sources for scholarship aid is available. Further information, including dates, and application forms are available from the Office of the Dean, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y.

PHYSICAL THERAPY

ADMINISTRATIVE OFFICERS

- GRAYSON KIRK, Ph.D., LL.D. *President of the University*
- JOHN A. KROUT, Ph.D., L.H.D., LL.D. . . *Vice President and Provost of the University*
- WILLARD C. RAPPEYE, A.M., M.D., Sc.D., Med.Sc.D. . . . *Vice President in Charge of Medical Affairs; Dean, Faculty of Medicine*
- ROBERT C. DARLING, M.D. *Professor of Physical Medicine and Rehabilitation; Executive Officer, Department of Physical Medicine and Rehabilitation*
- WILLIAM BENHAM SNOW, M.D. . . . *Professor of Physical Medicine; Medical Director, Courses in Physical and Occupational Therapy*
- MARY E. CALLAHAN, A.M. *Assistant Professor and Director, Training for Physical Therapists*
- RUTH DICKINSON, A.M. *Instructor and Associate Director, Training for Physical Therapists*

OFFICERS OF INSTRUCTION

- MARGUERITE ABBOTT, O.T.R., *Assistant Professor of Occupational Therapy; B.S., Tufts; A.M., Columbia; Graduate, Boston School of Occupational Therapy*
- GEORGE B. AMBROSE, *Instructor in Orthopedic Surgery; A.B., M.D., Columbia*
- WILLIAM AMOLS, *Associate Professor of Clinical Neurology; A.B., M.D., New York University*
- GUSTAV J. BECK, *Instructor in Medicine; B.S., Columbia; M.D., New York University*
- MARY E. CALLAHAN, *Assistant Professor of Physical Therapy; B.S., New York University; A.M., Columbia; Graduate, Clinton Hospital School of Nursing; Certificate in Physical Therapy, Posse Institute*
- MARY A. COVER, *Instructor in Physical Therapy; Graduate, Sargent College; Certificate in Physical Therapy, Walter Reed Hospital*
- FREDERICK S. CRAIG, *Instructor in Orthopedic Surgery; M.D., Buffalo*
- GEORGE F. CRICKELAIR, *Instructor in Surgery; A.B., M.D., Wisconsin*
- ROBERT C. DARLING, *Professor of Physical Medicine and Rehabilitation; A.B., M.D., Harvard*
- RUTH DICKINSON, *Instructor in Physical Therapy; B.S., Russell Sage; A.M., Certificate in Physical Therapy, Columbia*
- HERBERT O. ELFTMAN, *Associate Professor of Anatomy; A.B., A.M., California; Ph.D., Columbia*
- MARIE LOUISE FRANCISCUS, O.T.R., *Assistant Professor of Occupational Therapy; Director, Training for Occupational Therapists; B.S., Ohio State; A.M., Columbia; Graduate, Philadelphia School of Occupational Therapy*
- ALFRED GALLINEK, *Associate in Neurology; M.D., Berlin*
- ALEXANDER GRACIA, *Instructor in Orthopedic Surgery; B.S., College of the City of New York; M.D., Long Island College of Medicine*
- A. DAVID GUREWITSCH, *Associate Clinical Professor of Rehabilitation Medicine; M.D., Basel*
- JOHN B. HENRY, *Instructor in Pathology; A.B., Cornell; M.D., Rochester*
- MORTON HOBERMAN, *Assistant Clinical Professor of Physical Medicine and Rehabilitation; B.S., New York University; M.B., M.D., Wayne*
- WILLIAM A. HORWITZ, *Professor of Clinical Psychiatry; M.D., Albany Medical College; Sc.D., Med.Sc.D., Columbia*
- GEORGE P. JESSUP, JR., *Instructor in Physical Therapy; B.S., Ithaca; Certificate in Physical Therapy, New York University*
- MARION D. LAIRD, *Instructor in Obstetrics and Gynecology; B.A., Queens, Ontario; M.D., Toronto*
- MILOS J. LOTA, *Instructor in Physical Medicine and Rehabilitation; M.D., Masaryk University*
- HARRISON L. McLAUGHLIN, *Professor of Clinical Orthopedic Surgery; M.D., Queens University Medical College*

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J. LOWRY MILLER, *Associate Clinical Professor of Dermatology*; A.B., North Carolina; M.D., Pennsylvania

CHARLES R. NOBACK, *Associate Professor of Anatomy*; B.S., Cornell; M.S., New York University; Ph.D., Minnesota

MERO R. NOCENTI, *Instructor in Physiology*; A.B., M.S., West Virginia; Ph.D., Rutgers

ALEXANDER D. PAPAS, *Instructor in Orthopedic Surgery*; A.B., M.D., Columbia

ISABEL ROBINAUT, O.T.R., *Instructor in Occupational Therapy*; A.B., Barnard; A.M., Certificate in Occupational Therapy, New York University

GEORGE R. ROWLEY, *Instructor in Physiology*; A.B., Upsala; Ph.D., Rutgers

KATHERINE T. SAN JULIAN, *Associate in Physical Therapy*; A.B., New York University; A.M., Certificate in Physical Therapy, Columbia

MARTHA E. SCHNEBLY, O.T.R., *Instructor in Occupational Therapy*; *Associate Director, Training for Occupational Therapists*; B.S., Maryland State Teachers College, Towson; Certificate in Occupational Therapy, Columbia

DANIEL SCIARRA, *Associate Professor of Clinical Neurology*; A.B., M.D., Harvard

MEYER H. SLATKIN, *Instructor in Dermatology*; B.S., College of the City of New York; M.D., Edinburgh

FREDERICK M. SMITH, *Associate Professor of Clinical Orthopedic Surgery*; A.B., A.M., Yale; M.D., Med.Sc.D., Columbia

WILLIAM BENHAM SNOW, *Professor of Physical Medicine*; M.D., Long Island College of Medicine

BLANCHE TALMUD, *Instructor in Physical Therapy*; B.S., Certificate in Physical Therapy, New York University

ARTHUR B. VOORHEES, JR., *Instructor in Surgery*; M.D., Columbia

SONYA E. WEBER, *Instructor in Physical Medicine and Rehabilitation*; A.B., Vienna; Sc.D., Eastern Reserve

VIRGINIA N. WILKING, *Instructor in Psychiatry*; A.B., Bryn Mawr; M.D., Columbia

JOHN A. WOOD, *Assistant in Medicine*; A.B., M.D., Harvard

SPECIAL LECTURERS

ARTHUR ABRAMSON, Chairman, Department of Rehabilitation Medicine, Yeshiva; B.S., M.D., C.M., McGill

OLAV AUSTLID, Acting Director, Physical Medicine, Hospital for Special Surgery; M.D., Vienna

SIGNE BRUNNSTROM, Consultant in Physical Therapy, Institute of Physical Medicine and Rehabilitation; B.S., Uppsala College, Sweden; Physical Therapy, Royal Gymnastic Central Institute, Sweden; A.M., New York University

ELIZABETH M. CARRICK, Instructor, New York School of Social Work; B.S., Ohio State; A.M., New York School of Social Work

JOHN A. DOWNEY, Resident, Physical Medicine and Rehabilitation Service, Presbyterian Hospital; B.Sc., M.D., Manitoba

JON EISENSEN, Lecturer in Otolaryngology; A.B., College of the City of New York; A.M., Ph.D., Columbia

MINNIE M. GENN, Pediatric Psychiatric Clinic; B.S., Boston University; Ed.D., Harvard

CHARLES R. GOLDSTINE, Director, Prosthetic and Orthopedic Appliance Shops, Institute for the Crippled and Disabled

MARGERY GROSS, Chief, Cerebral Palsy Clinic, Institute for the Crippled and Disabled; A.S., New Haven Junior College; Certificate in Physical Therapy, Hospital for Special Surgery

MILDRED HARRIS, A.B., Vassar; A.M., Columbia; Certificate in Physical Therapy, Hospital for Special Surgery

EDWARD F. HARTUNG, Assistant Clinical Professor of Medicine, New York University Post-Graduate Medical School; A.B., M.D., Columbia

JETTA HENDIN, Physical Therapist, Columbia-Presbyterian Medical Center; B.S., Manitoba; A.M., Columbia; Certificate in Physical Therapy, Hospital for Special Surgery

HELEN HENNESSY, Orthopedic Consultant and Supervisor of Physical Therapy, Visiting Nurse Service of New York; Graduate, Yale School of Nursing; B.S., Columbia; Certificate in Physical Therapy, Hospital for the Ruptured and Crippled

SHULAMITH KASTEIN, Speech Pathologist, Department of Otolaryngology, Columbia-Presbyterian Medical Center; Diploma, Vienna

HENRY KESSLER, Director, The Kessler Institute for Rehabilitation; A.B., M.D., Cornell; A.M., Ph.D., Columbia

JACOB MEISLIN, Chief, Physical Medicine and Rehabilitation, Franklin Delano Roosevelt Hospital; B.S., College of the City of New York; M.D., Lausanne

JUDITH S. SCHACHTER, Lecturer, Department of Psychiatry; A.B., Radcliffe; M.D., New York University

JOSEPH E. SNYDER, Assistant Vice President, Presbyterian Hospital; A.B., Nebraska; M.D., Pennsylvania

ALEXANDER VAN WEST, Assistant Professor of Psychology, Fairleigh Dickinson College; B.S., M.S., College of the City of New York; Ph.D., New York University

PHYSICAL THERAPY

Physical therapy is the treatment of disease and injury by the use of such agents as sunshine, water, exercise, massage, mechanical forces, and electricity. Functional rehabilitation of persons injured by disease or accident is a pressing medical need; the skillful application of physical therapy following injury will do much to shorten the time of disability. The ultimate aim of any treatment is the maximal rehabilitation and adjustment of the patient. The success of this type of treatment is dependent upon the therapist's knowledge, care, and precision in the administration of the intelligent medical prescription.

The program of study described here gives the student a basic knowledge of the normal functions of the human body and of the pathology of those diseases and injuries in which physical therapy can be helpful in the optimum rehabilitation of the patient. In addition to theoretical classroom instruction and demonstrations, students observe treatment procedures and receive practice in teaching hospitals under University supervision.

The curriculum is planned to serve the educational needs of students working toward the Bachelor of Science degree or toward the Certificate of Training in Physical Therapy.

The Bachelor of Science degree is offered upon satisfactory completion of the full Junior and Senior program, which includes clinical experience. This program is superimposed upon two years of college work in liberal arts with a minimum of sixty semester credits including the proper science prerequisites.

The Certificate of Training in Physical Therapy is offered upon satisfactory completion of the programs (academic and clinical) prescribed for students of advanced standing. This program is superimposed upon the background of one of the following:

1. Bachelor's degree from an accredited college or university
2. Graduation from a nationally accredited professional school of nursing

Graduates of either program will have had a minimum of four years' post-secondary education study including special professional courses in physical therapy. Minimum standards for approved schools of physical therapy are set by the American Medical Association through the Council on Medical Education and Hospitals. Graduates of either program are eligible for admission to the examination of the American Registry of Physical Therapists and for membership in the American Physical Therapy Association.

Many states require licensing or registration of physical therapists, for which examinations are usually held at intervals during the year. A student should become familiar with the requirements in his state so that any required examination may be taken as soon as possible after graduation.

The law in New York State requires that a graduate must pass the qualifying examination, conducted by the Department of Education of the State of New York. This examination is usually held in July and December of each year. According to the law in New York State only those persons who are citizens or who have filed intentions of becoming citizens of this country may be considered for admission to the examination.

ADMISSION REQUIREMENTS

Students are admitted only in September. Admission to the professional courses is open to qualified students from nineteen to thirty-five years of age. In subjects taken at other institutions for which transfer credit is allowed, a grade of C or better is required. The ability to swim is required for both programs of study in the second semester. Stu-

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dents unable to swim at the time of admission are responsible for securing instruction for themselves before the second semester. Applicants for admission must be graduates of approved high schools or the equivalent, and then must satisfy *one* of the following requirements:

For the degree program:

Two years or sixty semester credits of liberal arts in a college approved by Columbia University, including: (a) 6 semester credits in biological science; (b) 4 semester credits in physics or chemistry (preferably both); (c) 6 semester credits in psychology.

For the certificate program:

Graduation from an approved college with at least a Bachelor of Science or Bachelor of Arts degree, the undergraduate work to include: (a) eight semester credits in biological science; (b) six semester credits in physics or chemistry (preferably both); (c) ten semester credits in social science (of which six must be in psychology)

Or

Graduation from a nationally accredited professional school of nursing with courses carrying college credit in the biological and physical sciences. Courses in the humanities and social sciences are a desirable background.

ADMISSION PROCEDURE

Application forms may be obtained by writing to the Physical Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y., and should be filed by June 1 preceding the academic year in which the student wishes to begin his studies. The completed form must be accompanied by the application fee of \$10. This fee is not returnable and is not credited toward tuition.

Transcripts of all post-secondary education should be forwarded by the registrar of the respective schools directly to the Director of Training for Physical Therapists.

A personal interview will be arranged for each applicant.

ESTIMATED EXPENSES

<i>University Expenses (total program)</i>	<i>Degree Program (two years)</i>	<i>Certificate Program (one year)</i>
Tuition	\$2,200	\$1,100
University fees	96	48
Clinical supervisory fee	24	12
Books, materials, equipment, uniforms	115	100
Health and hospital fee	50	25
<i>Total</i>	<u>\$2,485</u>	<u>\$1,285</u>

Living Expenses (per academic year)

Room	\$340-\$485
Board	550
Subway and bus fares (within program)	65
<i>Total</i>	<u>\$955-\$1,100</u>

During summer clinical practice periods, the amount of living expenses will vary depending upon the accommodations provided by the medical institution to which the student is assigned.

PROGRAM OF STUDY

Degree candidates take the entire program of courses listed below. Certificate candidates take only the starred courses. Both curricula are outlined on pages 16-17.

Degree candidates should consult the bulletins of Teachers College and the School of General Studies for suitable electives.

The University reserves the right to withdraw or modify these courses or to change the instructors as may be necessary.

Junior Year: Winter Session

***Anatomy 155—Human anatomy.** Lectures and laboratory. 3 pts. Professors Elftman and Noback.

Anatomy of the human body with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter being based on prepared dissection of the human body.

***Kinesiology 105—Applied anatomy and kinesiology.** Lectures and laboratory. 2 pts. Misses Brunnstrom, Dickinson, Schnebly, and others.

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement. Analysis of skills used in daily activities and other activities in physical and occupational therapy.

***Massage 3—Essentials of massage and techniques of relaxation.** Lectures and laboratory. 2 pts. Professors Callahan and Gurewitsch; Misses Dickinson and Harris.

The theory and technique of massage and relaxation with demonstration and practice.

***Nursing Procedures 17—Bandaging and dressings.** Lectures and laboratory. 1 pt. Mr. Jessup.

The techniques of bandaging, asepsis, handling of dressings, and bedside conduct.

***Orientation 39—Professional ethics and institutional organization.** 1 pt. Professor Snow.

Lectures governing appropriate conduct of medical assistants in the routine of their work. Orientation of medical workers toward institutional contacts.

***Physics 111—Physics applied to physical medicine.** Lectures and demonstrations. 3 pts. Dr. Lota.

Basic kinetics, radiation, hydro-dynamics, and electricity as they apply to the practice of physical therapy.

***Physiology 55 or 157—Human physiology.** Lectures and demonstrations. 2 pts. Drs. Nocenti (55) and Rowley (157).

A comprehensive discussion of the major organ systems of the human body and their functions, with emphasis on the physiology of exercise. Students with a minimum background of course work in biology, chemistry, and physics register for *Physiology 55*. Those who have had a comprehensive physiology course and considerable course work in biology, chemistry, and physics register for *Physiology 157*.

Psychology 41—Child development. 2 pts. Dr. Wilking.

The mental, motor, social, and emotional development of the child. Special attention is given to a consideration of stress situations encountered by the child and his methods of handling them.

Prerequisite: General psychology.

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Junior Year: Spring Session

Clinical Experience 2—Introduction to clinical practice. 2 pts.

Orientation to institutions, physical therapy departments, patients, keeping records, and in giving massage and exercise.

***Exercise 112—Therapeutic exercise, including underwater techniques.** Lectures and laboratory. 2 or 4 pts. Professors Snow, Darling, and Hoberman, Mrs. Weber, and associates.

The basic principles of therapeutic exercise, including physiology of exercise, muscle evaluation and re-education, tests and measurements, and underwater exercises.

***Hydrotherapy 18—Theory and practice, including neuropsychiatric techniques.** Lectures and laboratory. 1 pt. Dr. Downey and Mrs. San Julian.

The physiological effects of water as a therapeutic agent; hydrotherapeutic techniques and other applications.

***Orthopedics 136—Orthopedics. 2 pts.** Drs. Craig and Papas.

Lectures and clinical presentations descriptive of orthopedic conditions, including discussion of related problems—social, medical, surgical, and rehabilitation.

***Psychiatry 102—Elementary psychiatry. 3 pts.** Dr. Van West and an instructor to be announced.

Etiology and symptomatology of the major and minor psychoses, including the psychoneuroses and their treatment. Lectures with clinical demonstrations and field trips.

Work for the third point includes a survey of psychological tests and measurements and interpretation of their results for the physical and occupational therapist.

***Thermotherapy 10—Heat application and radiation. 1 pt.** Dr. Downey and Mrs. San Julian.

A study of spectral radiation and the theory and technique of application of radiation of various types.

Elective in administration and techniques of recreation. 2 pts.

Summer

Degree candidates spend ten weeks (June, July, and part of September) in full-time clinical practice at one or more of the affiliated hospitals (see pages 18–20). They attend lectures, clinics, and staff meetings, receive supervised practical experience in physical therapy, and are introduced to related treatment departments.

Certificate candidates have a similar experience for four months (June, July, August, and September).

Senior Year: Winter Session

Clinical Experience 3—Supervised clinical practice. 2 pts.

Lectures, observation, demonstrations, and supervised practice in various clinics of physical medicine and rehabilitation.

***Clinical subjects 101—General medicine and surgery. 2 pts.** Drs. Wood and Voorhees.

General medicine (Dr. Wood): A survey of the more common diseases with emphasis on pulmonary tuberculosis and cardiac disorders. Lectures deal primarily with the relationship of pathological physiology to the development of signs and symptoms of disease.

General surgery (Dr. Voorhees): A survey of those common diseases for which there is surgical emphasis.

***Neuroanatomy 95—Anatomy of the nervous system. 2 pts.** Professor Sciarra.

Anatomy of the nervous system of man, including the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

Orientation 41—Seminar on social work and human behavior. 1 pt. Mrs. Carrick.

Orientation to social work as related to what we learn about human behavior and its relationship to physical therapy.

***Pathology 31—Elementary studies in pathology.** 1 pt. Dr. Henry.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alterations of function resulting from these influences.

Psychiatry 101—Psychosomatic aspects of physical medicine. 1 pt. Dr. Schachter.

A consideration of the emotional aspects of all disease.

Speech 163—Principles and practice of speech science. 2 pts. Dr. Eisensohn.

This course covers the basic anatomy and physiology underlying speech science. Consideration will be given to the pathology of speech abnormalities and the therapeutic approach to their correction.

Elective in English, communication skills, or public speaking and discussion. 3 pts.

Elective chosen with the approval of the adviser. 2 pts.

Senior Year: Spring Session

***Clinical Applications 130—Survey of medical and surgical conditions in relation to physical medicine.** Lectures and demonstrations. 2 pts. Professor Snow and associates.

This course gives the student a closer acquaintance with disease as it occurs in the practice of physical medicine. Specialists discuss the problems in their fields of practice, including particular pathology and the needs of physical medicine. This analysis is followed by prescriptive physical therapy to cover these special indications. There will be further clinical practice in hospitals.

Clinical Experience 4—Supervised clinical experience. 2 pts.

Continuation of *Clinical Experience 3*.

***Electrotherapy 14—Theory and practice of electrotherapy.** 2 pts. Dr. Lota and associates.

Theory and principles of technique of the diagnostic and therapeutic uses of high frequency, galvanic, and other low frequency currents.

Kinesiology 205—Advanced kinesiology. 2 pts. Miss Brunnstrom and others.

Review of recent scientific developments applicable to movement therapy.
Registration only with permission of the instructor.

***Neurology 106—Clinical neurology.** 2 pts. Dr. Gallinek.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

***Orientation 16—Seminar.** 1 or 2 pts. Professor Callahan and Misses Schnebly and Dickinson.

Lecture and discussion of topics of importance to the therapist in practice, including organization and administration in departments of physical therapy; job placement and recent developments in physical medicine. Seniors will register for two points which will include a general survey of occupational therapy, with emphasis on theoretical principles as applied to major disability areas.

Physical Therapy 116—Practical application of physical therapy. 2 pts. Professor Snow and associates.

Integration and application of the fundamental principles and skills already learned to specific cases.

***Rehabilitation 150—Rehabilitation techniques and problems of the handicapped.** Lectures and demonstrations. 2 pts. Miss Talmud.

Theory, practice, and evaluation of functional activities; types, application, and care of supportive apparatus.

Elective chosen with the approval of the adviser. 2 pts.

OUTLINES OF THE PROGRAM

DEGREE PROGRAM

Junior Year: Winter Session

<i>Anatomy</i> 155	Human anatomy	3
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2
<i>Massage</i> 3	Essentials of massage and techniques of relaxation	2
<i>Nursing Procedures</i> 17	Simple bandaging, dressings, asepsis and other techniques	1
<i>Orientation</i> 39	Professional ethics and institutional organization	1
<i>Physics</i> 111	Physics applied to physical medicine	3
<i>Physiology</i> 55 or 157	Aspects of human physiology	2
<i>Psychology</i> 41	Child development	2
		<i>Total points</i> 16

Junior Year: Spring Session

<i>Clinical Experience</i> 2	Introduction to clinical practice	2
<i>Exercise</i> 112	Therapeutic exercise, including underwater techniques	4
<i>Hydrotherapy</i> 18	Theory and practice, including neuropsychiatric techniques	1
<i>Orthopedics</i> 136	Survey of orthopedics	2
<i>Psychiatry</i> 102	Elementary psychiatry	3
<i>Thermotherapy</i> 10	Heat application and radiation	1
	Elective in administration and techniques of recreation	2
		<i>Total points</i> 15

June, July, and September: Clinical observation, instruction, and supervised practice

Senior Year: Winter Session

<i>Clinical Experience</i> 3	Supervised clinical practice	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>Neuroanatomy</i> 95	Anatomy of the nervous system	2
<i>Orientation</i> 41	Seminar on social work and human behavior	1
<i>Pathology</i> 31	Elementary studies in pathology	1
<i>Psychiatry</i> 101	Psychosomatic aspects of physical medicine	1
<i>Speech</i> 163	Principles and practice of speech science	2
	Elective in English, communication skills, or public speaking and discussion	3
	Elective chosen with the approval of the adviser	2
		<i>Total points</i> 16

Senior Year: Spring Session

<i>Kinesiology 205</i>	Advanced kinesiology	2
<i>Clinical Applications 130</i>	Survey of medical and surgical conditions in relation to physical medicine	2
<i>Clinical Experience 4</i>	Supervised clinical practice (continued)	2
<i>Electrotherapy 14</i>	Theory and practice of electrotherapy	2
<i>Neurology 106</i>	Clinical neurology	2
<i>Orientation 16</i>	Seminar	2
<i>Physical Therapy 116</i>	Practical application of physical therapy	2
<i>Rehabilitation 150</i>	Rehabilitation techniques and problems of the handicapped	2
	Elective chosen with the approval of the adviser	2
		<i>Total points</i> 18

CERTIFICATE PROGRAM

Winter Session

<i>Anatomy 155</i>	Human anatomy	3
<i>Clinical Subjects 101</i>	General medicine and surgery	2
<i>Kinesiology 105</i>	Applied anatomy and kinesiology	2
<i>Massage 3</i>	Essentials of massage and techniques of relaxation	2
<i>Neuroanatomy 95</i>	Anatomy of the nervous system	2
<i>Nursing Procedures 17</i>	Simple bandaging, dressings, asepsis, and other techniques	1
<i>Orientation 39</i>	Professional ethics and institutional organization	1
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Physics 111</i>	Physics applied to physical medicine	3
<i>Physiology 55 or 157</i>	Human physiology	2
		<i>Total points</i> 19

Spring Session

<i>Clinical Applications 130</i>	Survey of medical and surgical conditions in relation to physical medicine	2
<i>Electrotherapy 14</i>	Theory and practice of electrotherapy	2
<i>Exercise 112</i>	Therapeutic exercise, including underwater techniques	4
<i>Hydrotherapy 18</i>	Theory and practice, including neuropsychiatric techniques	1
<i>Neurology 106</i>	Clinical neurology	2
<i>Orientation 16</i>	Seminar	1
<i>Orthopedics 136</i>	Survey of orthopedics	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Rehabilitation 150</i>	Rehabilitation techniques and problems of the handicapped	2
<i>Thermotherapy 10</i>	Heat application and radiation	1
		<i>Total points</i> 19

June, July, August, and September: Clinical instruction and supervised experience

HOSPITALS AFFILIATED FOR CLINICAL PRACTICE

Attendance in the hospitals and clinics listed below is concurrent with regular classroom work in the winter and spring sessions. In addition, all students are required to spend a period during the summer in full-time clinical practice. During this period students attend lectures, clinics, and staff meetings, receive supervised practical experience in physical therapy, and are introduced to related treatment departments.

BLYTHEDALE, Valhalla, N.Y.

Jacob Reingold, *Executive Director*

A. David Gurewitsch, M.D., *Medical Director*

Carroll Wardlaw, *Head Physical Therapist*

BRONX VETERANS HOSPITAL, New York, N.Y.

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- CHARLES R. NOBACK, *Associate Professor of Anatomy; B.S., Cornell; M.S., New York University; Ph.D., Minnesota*

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cupational Therapy; A.B., Smith; Certificate, Boston School of Occupational Therapy

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VIRGINIA N. WILKING, *Instructor in Psychiatry*; A.B., Bryn Mawr; M.D., Columbia

JOHN A. WOOD, *Assistant in Medicine*; A.B., M.D., Harvard

SPECIAL LECTURERS

SOPHIA R. ACKERMAN, O.T.R., Chief, Occupational Therapy, New York Veterans Administration Hospital; B.S., Certificate in Occupational Therapy, New York University; A.M., Columbia

NORMAN ACTON, Executive Director, United States Committee for the United Nations Children's Fund; B.S., Illinois

NORMA A. ALESSANDRINI, O.T.R., Director, Children's Recreation Service, Bellevue Hospital; B.S., Cornell; Certificate in Occupational Therapy, Columbia

LOTTIE I. BARTH, O.T.R., Director of Occupational Therapy, Montefiore Hospital; B.S., Certificate in Occupational Therapy, New York University

EDITH H. BROKAW, O.T.R., Consultant in Occupational Therapy; Graduate, Philadelphia School of Occupational Therapy

SIGNE BRUNNSTROM, Consultant in Physical Therapy, Institute of Physical Medicine and Rehabilitation; B.S., Uppsala College, Sweden; Physical Therapy, Royal Gymnastic Central Institute, Sweden; A.M., New York University

HAROLD CHENVEN, Chief Clinical Psychologist, Institute for the Crippled and Disabled; A.B., Brooklyn; A.M., Ph.D., New York University

CECILE L. CROTTY, Recreation Instructor, New York State Psychiatric Institute; Diploma, Posse-Nissen College of Physical Education

MARJORIE FISH, O.T.R., Executive Director, American Occupational Therapy Association; A.B., Swarthmore; A.M., Columbia; Graduate, Boston School of Occupational Therapy

CLAIRE S. GLASSER, O.T.R., Instructor in Occupational Therapy, New York University; B.S. in Occupational Therapy, Columbia

CHARLES GOLDSTINE, Director, Prosthetic and Orthopedic Appliance Shop, Institute for the Crippled and Disabled

WILLIS C. GORTHY, Director, Institute for the Crippled and Disabled; C.E., Cornell

JACK GRANOFFSKY, Associate Chief, Psychological and Vocational Services, Institute of Physical Medicine and Rehabilitation; A.B., Brooklyn; A.M., New York University; Ph.D., Yeshiva

MARJORIE GROSS, Chief, Cerebral Palsy Clinic, Institute for the Crippled and Disabled; A.S., New Haven Junior College; Certificate in Physical Therapy, Hospital for Special Surgery

MARY FRANCES HEERMANS, O.T.R., Director of Education, American Occupational Therapy Association; A.B., M.S., Illinois; Certificate in Occupational Therapy, Southern California

MARGARETTE N. HELMLE, Director, Rehabilitation Service, Brooklyn Tuberculosis and Health Association

SHULAMITH KASTEIN, Speech Pathologist, Department of Otolaryngology, Columbia-Presbyterian Medical Center; Diploma, Vienna

AGNES D. NESS, O.T.R., Teacher, Vocational Department, Lexington School for the Deaf; B.S., Certificate in Occupational Therapy, New York University; A.M., Columbia

JAY O'BRIEN, Director, Vocational Evaluation and Guidance Unit, Institute for the Crippled and Disabled; B.S., Ohio State

JANET PINNER, Director of Selective Placement Service, New York State Employment Service; A.B., Adelphi

MORTON A. SEIDENFELD, Director of Psychological Services and Public Education, National Foundation for Infantile Paralysis; B.S., Washington; M.S., Ph.D., Pennsylvania

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EMIL TRAPANI, Director, Industrial Rehabilitation Service, Institute for the Crippled and Disabled

ALEXANDER VAN WEST, Assistant Professor of Psychology, Fairleigh Dickinson; B.S., M.S., College of the City of New York; Ph.D., New York University

SOL WARREN, State Coordinator of Internship Training, Division of Vocational Rehabilitation, New York State Department of Education; B.S., Brooklyn; A.M., Columbia; Ph.D., New York University

OLIVE WEINBACH, O.T.R., Supervisor of Occupational Therapy, Bellevue Hospital; Graduate, Philadelphia School of Occupational Therapy

MICHI YASUMURA, O.T.R., Director, Pediatric Occupational Therapy, New York Hospital; A.B., Washington; A.M., Certificate in Occupational Therapy, New York University

OCCUPATIONAL THERAPY

Occupational therapy is the administration of medically prescribed treatment in the form of supervised activity for persons injured in body or mind by accident or disease. Creative and manual arts, recreational activities, educational pursuits, prevocational exploration and the activities of daily living are used in occupational therapy programs to improve physical function and to promote mental, social, and economic adjustment of the patient. Occupational therapy plays an integral part in modern rehabilitation programs for the mentally or physically ill.

Two courses of study are offered: one of twenty-five months' duration leading to the Bachelor of Science degree, and one of seventeen months' duration leading to a certificate. See "Admission Requirements" below.

The curriculum consists of classroom work devoted to courses in the biological, social, and clinical sciences providing a scientific, medical, and theoretical background. At the same time instruction is given in the techniques of creative and manual arts, activities of daily living, recreational, educational, and prevocational activities as they enter into the actual practice of occupational therapy. Correlated with theoretical classroom instruction, students observe treatment procedures in the occupational therapy units of several hospitals and institutions of the metropolitan area. A program of student clerkships in conjunction with the same institutions permits students to study treatment problems of specific diagnostic classifications as they are introduced in the medical lecture series, by means of the case study and laboratory method. In addition, there is a nine-month period of clinical practice in teaching hospitals under the supervision of the University.

The courses described in this bulletin meet the requirements set forth by the American Occupational Therapy Association and by the Council on Medical Education and Hospitals of the American Medical Association, as published in their *Essentials of an Acceptable School of Occupational Therapy*, which regulates the standards by which schools are accredited. Graduates of both the degree course and the certificate course are eligible for the examination leading to admission to the Registry of Occupational Therapists maintained by the American Occupational Therapy Association. This examination is held throughout the country in January and June of each year. Admission to the registry is the certification of a therapist to practice.

ADMISSION REQUIREMENTS

Students will be admitted in September only. Applicants for admission must be between the ages of nineteen and thirty-five years. Both men and women are admitted to professional courses, depending upon individual qualifications. Demands made on the physical endurance and emotional stamina of the therapist require a record of good health. Applicants must be graduates of an approved high school or the equivalent, and must satisfy one of the following requirements:

- A. *Candidates for the Degree.* Students who have satisfactorily completed at least two years of work in a college approved by Columbia University may register for the degree course, to be completed in approximately two years—sixteen months of theoretical education and nine months of clinical practice. Specific admission requirements include:
 1. Sixty semester credits in liberal arts, including a minimum of:
 - a. Six semester credits in biology (including coverage in zoology), chemistry, or physics.

- b. Three semester credits in psychology.
- c. Three semester credits in sociology.
2. A grade of C or better is required to receive transfer credit.

NOTE:—Suggested preprofessional curriculum is given on page 26.

B. *Candidates for the Certificate.* Students who hold a baccalaureate degree acceptable to Columbia University may register in the certificate course, to be completed in approximately seventeen months—eight months of theoretical education and nine months of clinical practice. Specific admission requirements include:

1. A Bachelor's degree. (See note below.)
2. Courses completed for the above degree should include the following minima:
 - a. Six semester credits in biology (including coverage in zoology), chemistry, or physics.
 - b. Six semester credits in psychology.
 - c. Three semester credits in sociology.

NOTE:—Graduates with accredited professional education in fields closely related to occupational therapy may be admitted to the certificate program.

ADMISSION PROCEDURE

Forms to be used in making application for admission may be obtained by writing to the Occupational Therapy Office, College of Physicians and Surgeons, 630 West 168th Street, New York 32, N.Y. Applications should be filed several months in advance of the time at which students wish to begin their studies. The completed form must be accompanied by the application fee of \$10. This fee is not returnable and is not credited toward tuition.

Transcripts of all post-secondary school education should be forwarded by the registrars of the respective schools directly to the Director of Occupational Therapy. A personal interview will be arranged for each application.

ESTIMATED EXPENSES

<i>University Expenses (total program)</i>	<i>Degree Program (two years)</i>	<i>Certificate Program (one year)</i>
Tuition	\$2,200	\$1,100
University fees	96	48
Clinical supervisory fee	24	12
Books, materials, equipment, uniforms	240	190
Health and hospital fee	50	25
<i>Total</i>	<i>\$2,610</i>	<i>\$2,375</i>

Living Expenses (per academic year)

Room	\$340–\$485
Board	550
Subway and bus fares (within program)	65
<i>Total</i>	<i>\$955–\$1,100</i>

ERRATUM

In the "Estimated Expenses" section, the total expenses for the Certificate Program in Occupational Therapy should read \$1,375.

Fees for materials and equipment in studio classes are payable at the time of registration and are subject to change in accord with market prices.

During clinical practice students spend approximately four months of the period in residence in hospitals where they receive full maintenance (room, board, and laundry). In some instances a maintenance arrangement is possible for a longer period of time.

There will be nominal transportation expenses for students in hospital affiliations outside the local area.

SUGGESTED PREPROFESSIONAL CURRICULUM

The following suggestions may be helpful to the student or guidance counsellor in planning the two-year college program prior to admission to the professional course leading to the Bachelor of Science Degree:

Six semester credits in each of the following fields: English composition, English literature, biology (including zoology), chemistry or physics, psychology, and sociology.

The remaining twenty-four credits might be chosen from such fields as speech, languages, social and political sciences, economics.

Transfer credit is usually not allowed for courses in physical education nor for any specific professional courses. A maximum of twelve credits will be allowed for courses completed in music and fine and industrial arts.

PROGRAM OF STUDY

Degree candidates take the entire program of courses listed below. Two years are spent on the campus in theoretical and technical study. To integrate the theoretical information, the student spends nine to twelve months of full-time clinical practice in psychiatric, general, pediatric, orthopedic, and tuberculosis services or hospitals. The summer periods are utilized for required clinical practice, thereby enabling the student to complete the full program in approximately two years. The program is given in outline form on pages 32-33. For electives, students should consult the bulletins of Teachers College and the School of General Studies.

Certificate candidates take only the starred courses listed below. The program is completed in seventeen months and is based on a combination of the starred courses, followed by nine to twelve months devoted to clinical practice. See pages 33-34 for a summary of the program in outline form.

The University reserves the right to withdraw or modify these courses or to change the instructors as may be necessary.

Junior Year: Winter Session

***Occupational Therapy 11—Orientation to occupational therapy. 1 or 2 pts. Professor Franciscus and special lecturers.**

A general survey of the field. The present uses, techniques, and philosophies of occupational therapy with special references to the roles of the therapist, to professional organizations, and to historical background and recent developments. Supplementary reading and reports. Orientation visits to hospital services.

Pathology 31—Elementary studies in pathology. 1 pt. Dr. Henry.

Lectures to outline the basic alterations which occur in body tissues due to injury and disease; alterations of function resulting from these influences.

Psychology 41—Child Development. 2 pts. Dr. Wilking.

The mental, motor, social, and emotional development of the child. Special attention is given to a consideration of stress situations encountered by the child and his methods of handling these.

Prerequisite: General psychology.

***Physiology 55 or 157—Human physiology. Lectures and demonstrations. 2 pts. Drs. Nocenti (55) and Rowley (157).**

A comprehensive discussion of the major organ systems of the human body and their functions, with emphasis on the physiology of exercise. Students with a minimum background of course work in biology, chemistry, and physics register for *Physiology 55*. Those who have had a comprehensive physiology course and considerable course work in biology, chemistry, and physics register for *Physiology 157*.

Neuroanatomy 95—Anatomy of the nervous system. 2 pts. Professor Sciarra.

The anatomy of the nervous system of man, including the structural unit, the cerebrospinal system, and the autonomic system. Attention will be given to the gross divisions of the brain, spinal cord, and peripheral nerves, with particular emphasis on the controls affecting voluntary motion.

***Anatomy 155—Human anatomy. 3 pts. Professors Elftman and Noback.**

Anatomy of the human body with emphasis on those features which are most important for muscular activity. Instruction is given by means of lectures and laboratory work, the latter based on prepared dissection of the human body.

O.T. Fine Arts 11—Needlecrafts. 2 pts. Misses Ericson and Kille.

This course includes instruction in clothing construction, pattern alteration, hand and machine sewing. Also included are the various forms of embroidery, canvas stitchery, appliqué, knitting, and crocheting. Materials charge.

O.T. Fine Arts 101—Fundamentals of art and design. 2 pts. Miss Paris.

A general survey course in the arts, which stresses the fundamentals of design as applied to crafts, commercial design, drawing, and painting. Museum and store visits. Lectures, readings, and discussions. Materials charge.

O.T. Fine Arts 163—Elementary woodwork. 2 pts. Mr. Lisenco.

This course is designed to orient the student to the fundamental principles of woodworking with hand tools. Careful workmanship and strong construction are stressed.

Materials charge.

Junior Year: Spring Session

***Occupational Therapy 12—Application in major medical fields.** 2 pts. Professor Franciscus and special lecturers.

This course stresses the principles and practice of occupational therapy techniques as applied to the tuberculous, the mentally ill, and to patients with medical and surgical diagnoses. Supplementary readings and reports. Field visits.

***Psychiatry 102—Elementary psychiatry.** 2 or 3 pts. Dr. Van West and instructor to be announced.

Etiology and symptomatology of the major and minor psychoses including the psychoneuroses and their treatment. Lectures with clinical demonstrations and field trips.

Work for the third point includes a survey of psychological tests and measurements, and interpretation of their results for the physical and occupational therapist.

***Neurology 106—Clinical neurology.** 2 pts. Dr. Gallinek.

Etiology, symptomatology, and treatment in diseases of the brain, spinal cord, and peripheral nerves.

O.T. Fine Arts 14—General crafts. 1, 2, or 3 pts. Misses Ericson and Kille.

This course includes many of the smaller crafts, such as: cord knotting, netting, braiding, rugmaking, chair seating, chip carving, and plastic fabrication. Emphasis is placed on basic techniques and their use in occupational therapy. Museum visit.

Materials charge.

***O.T. Fine Arts 26—Pottery.** 2 pts. Professor Mahoney.

An introduction to the possibilities and methods of using clay to create functional pottery with coils, with the potter's wheel, and by casting. Moldmaking, methods of decorating and glazing, and firing of kilns are studied for practical use in teaching.

Materials charge.

O.T. Fine Arts 30—Elementary weaving. 3 pts. Misses Ericson and Kille.

Problems include the finger weaves and small appliances, such as cards, inkle looms, and rigid frames. Stress is laid on the mechanics and methods of weaving on two- and four-harness looms. A museum trip.

Materials charge.

O.T. Clerkship 2—Case evaluations of psychiatric patients. 2 pts. Miss Schnebly (co-ordinator).

Correlation of instruction in psychology, psychiatry, and occupational therapy theory by assigned patient work-ups in occupational therapy units. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion. Required written reports and field trips.

Elective in administration and techniques of recreation. 1 pt.

Clinical Practice

Degree candidates spend June, July, and August in full-time clinical practice in psychiatry.

The clinical practice period for certificate candidates is described on page 34 below.

Senior Year: Winter Session

Occupational Therapy 21—Departmental organization and administration. 2 pts. Miss Schnebly and special lecturers.

Study of departmental organization and administration in the various medical fields. The techniques of application of occupational therapy in geriatrics and pediatrics are included in this course. Supplementary reading, reports, and field trips.

***Clinical subjects 101—General medicine and surgery.** 2 pts. Drs. Wood and Voorhees.

General medicine (Dr. Wood): A survey of the more common diseases with emphasis on pulmonary tuberculosis and cardiac disorders. Lectures deal primarily with the relationship of pathological physiology to the development of signs and symptoms of disease.

General surgery (Dr. Voorhees): A survey of those common diseases for which there is surgical emphasis.

***Kinesiology 105—Applied anatomy and kinesiology.** 2 pts. Misses Brunnstrom, Dickinson, Schnebly, and others.

Application of knowledge of gross anatomy of skeletal and muscular systems to mechanics of bodily movement. Analysis of skills used in daily activities and other activities in physical and occupational therapy. Lectures and laboratory.

Rehabilitation 115—Occupational analysis and prevocational evaluation. 1 or 2 pts. Dr. Granofsky and Mr. O'Brien.

An orientation to a variety of occupational situations and to the physical, mental, and emotional demands made on the worker. Analyses are made of industrial processes and the duties of the home-maker, and consideration is given to the principles of energy conservation. The place of occupational therapy in prevocational exploration and evaluation is discussed. Films and field visits.

***O.T. Fine Arts 105-106—Interpretive design.** 2 pts. Misses Ericson and Kille.

A course in which the principles of design are applied to occupational therapy media, such as block printing, stenciling, silk screening, and cardboard construction. Museum visit.

Materials charge.

O.T. Fine Arts 165—Advanced woodwork. 2 pts. Mr. Lisenco.

This course is a continuation of *O.T. Fine Arts 163* and includes an introduction to the uses of power machinery.

Materials charge.

***O.T. Graphic Arts 1-1R—Art of hand printing.** 1 or 2 pts. Professor Loos and Mr. Frey.

The fundamentals of printing, including instruction in type faces, proofreading, and presswork. The laboratory affords practical application of hand typesetting and operation of hand and foot presses. Films, demonstrations, and field trips.

O.T. Clerkship 3—Case evaluations of medical and surgical patients. 2 pts. Miss Ericson (coordinator).

Correlation of instruction in medicine, surgery, pediatrics, and occupational therapy theory by assigned patient work-ups in occupational therapy units and ward situations. A rotating clinical schedule is assigned each student. Each session is followed by a seminar discussion. Written reports and field trips.

Elective in group development. 2 pts.

Senior Year: Spring Session

***Occupational Therapy 24—Application to orthopedic and neurological disabilities.** 2 pts. Misses Abbott, Wellerson, and guest instructors.

Lecture and laboratory course in application of techniques in treatment of physical injuries and diseases including orthopedic and neurological disabilities. Demonstration and return demonstration by the student.

***Clinical Subjects 102—Orthopedics and public health.** 2 pts. Drs. Craig, Papas, and Antell.

Orthopedics (Drs. Craig and Papas): Lectures and clinical presentations descriptive of orthopedic conditions, including discussion of related problems—social, medical, surgical, and rehabilitation.

Public Health (Dr. Antell): An orientation to preventive medicine and public health problems including communicable and contagious diseases.

Exercise 112—Therapeutic exercise. 2 to 5 pts. Professors Snow, Darling, Hoberman, and Mrs. Weber, and associates.

The basic principles of therapeutic exercise including the physiology of exercise, muscle evaluation and re-education, and tests and measurements. Lectures and laboratory.

***Rehabilitation 118—Agencies and personnel in rehabilitation.** 2 pts. Miss Schnebly (coordinator), Drs. Clark and Lindenberg, and special lecturers.

Lectures concerning community resources for the physical, psychological, social, and vocational rehabilitation of the handicapped. Legislation and organization of both public and private health agencies are studied. Included is consideration of some of the more common pathologies affecting vision and hearing, and rehabilitation techniques.

Rehabilitation 126—Activities of daily living. 2 pts. Miss Ericson.

A laboratory course to acquaint the student with some of the materials, equipment, and techniques to aid the handicapped in attaining maximum self-sufficiency. Consideration is given to the needs of persons with motor, sensory, and emotional handicaps, as well as energy conservation techniques for the cardiac and tuberculous. Also includes some experience in making functional splints.

Materials charge.

***O.T. Fine Arts 17-18—Leatherwork.** 1 or 2 pts. Misses Ericson and Kille.

A course in hand leatherwork. Techniques of decoration and construction of small projects as used in occupational therapy.

Materials charge.

***O.T. Fine Arts 168—Metalwork and jewelry.** 2 pts. Mr. Lisenco.

A course in the basic techniques of hammered metal and jewelry. Elementary principles of mechanical drawing.

Materials charge.

O.T. Clerkship 4—Physical and vocational rehabilitation. 2 pts. Miss Ericson (coordinator).

A study of the roles and contributions of the various professional disciplines and the interrelationships of the patient service departments in a rehabilitation center. Through observation of, and active participation in, patient treatment, by attendance at clinical staff conferences and a weekly class seminar, and by written reports, students are guided to an understanding of the breadth of problems confronting the disabled and the many skills and disciplines available to help in overcoming them.

Elective. 2 pts.

Clinical Practice

Degree candidates spend at least six months (July to January) in full-time clinical practice in specified areas of service. The list of affiliated hospitals and agencies is given on pages 35-37.

CERTIFICATE PROGRAM

Winter Session

In addition to the starred courses listed above under winter session, junior and senior years, the following courses must be taken:

O.T. Fine Arts 15—General crafts and needlecrafts. 1, 2, or 3 pts. Misses Ericson and Kille.

The general crafts section of this course includes cordage, plastics, wood carving, chair seating, and rugmaking. The needlecraft section is designed to supplement the student's knowledge and to guide her in the application of all types of needlework to occupational therapy.

Materials charge.

O.T. Fine Arts 17-18—Leatherwork. 1 or 2 pts. For description, see listing above under spring session, senior year.

O.T. Fine Arts 35—Weaving. 2 pts. Misses Ericson and Kille.

Techniques of loom and small appliance weaving are covered with particular emphasis on the mechanics of weaving and the application to occupational therapy situations. Acquaintance with the basic weaves, textures, and simple patterns are gained through the use of various fibers.

Materials charge.

O.T. Fine Arts 167—Woodwork. 2 pts. Mr. Lisenco.

A course designed to orient students in the fundamentals of woodworking and to develop a reasonable skill in the use of hand tools and finishing processes. An introduction to the use of power tools.

Materials charge.

Spring Session

In addition to the starred courses listed above under spring session, junior and senior years, the following courses must be taken (for descriptions, see listings under winter session, senior year):

O.T. Fine Arts 105-106—Interpretive design. 2 pts.

O.T. Graphic Arts 1-1R—Art of hand printing. 2 pts.

During the spring session, candidates must also attend a weekly seminar, in which advanced theory, principles, and practice of occupational therapy are discussed.

Clinical Practice

July to April: at least nine months of clinical practice in specified areas of service (the list of affiliated hospitals and agencies is given on pages 35-37). During this period, each student must write a paper on an area of particular interest to him and one which is related to clinical experiences. He must submit his paper two months before he completes the clinical practice period.

OUTLINES OF THE PROGRAM

DEGREE PROGRAM

Junior Year: Winter Session

<i>O.T. Theory 11</i>	Orientation to occupational therapy	2
<i>Pathology 31</i>	Elementary studies in pathology	1
<i>Psychology 41</i>	Child development	2
<i>Physiology 55 or 157</i>	Human physiology	2
<i>Neuroanatomy 95</i>	Anatomy of the nervous system	2
<i>Anatomy 155</i>	Human anatomy	3
<i>O.T. Fine Arts 11</i>	Needlecrafts	2
<i>O.T. Fine Arts 101</i>	Fundamentals of art and design	2
<i>O.T. Fine Arts 163</i>	Elementary woodwork	2
		—
<i>Total points</i>		18

Junior Year: Spring Session

<i>O.T. Theory 12</i>	Application in major medical fields	2
<i>Psychiatry 102</i>	Elementary psychiatry	3
<i>Neurology 106</i>	Clinical neurology	2
<i>O.T. Fine Arts 14</i>	General crafts	3
<i>O.T. Fine Arts 26</i>	Pottery	2
<i>O.T. Fine Arts 30</i>	Elementary weaving	3
<i>O.T. Clerkship 2</i>	Case evaluations of psychiatric patients	2
	Elective in administration and techniques of recreation	1
		—
<i>Total points</i>		18

June, July, and August: Clinical practice in psychiatry

Senior Year: Winter Session

<i>O.T. Theory 21</i>	Departmental organization and administration	2
<i>Clinical Subjects 101</i>	General medicine and surgery	2
<i>Kinesiology 105</i>	Applied anatomy and kinesiology	2
<i>Rehabilitation 115</i>	Occupational analysis and prevocational evaluation	2
<i>O.T. Fine Arts 105</i>	Interpretive design	2
<i>O.T. Fine Arts 165</i>	Advanced woodwork	2
<i>O.T. Graphic Arts 1</i>	Art of hand printing	2
<i>O.T. Clerkship 3</i>	Case evaluations of medical and surgical patients	2
	Elective in group development	2
		—
<i>Total points</i>		18

Senior Year: Spring Session

<i>O.T. Theory</i> 24	Application to orthopedic and neurological disabilities	2
<i>Clinical Subjects</i> 102	Orthopedics and public health	2
<i>Exercise</i> 112	Therapeutic exercise	2
<i>Rehabilitation</i> 118	Agencies and personnel in rehabilitation	2
<i>Rehabilitation</i> 126	Activities of daily living	2
<i>O.T. Fine Arts</i> 18	Leatherwork	2
<i>O.T. Fine Arts</i> 168	Metalwork and jewelry	2
<i>O.T. Clerkship</i> 4	Physical and vocational rehabilitation	2
	Elective	2
<i>Total points</i>		18

July–January: Six months of clinical practice in specified areas of service

CERTIFICATE PROGRAM

Winter Session

<i>O.T. Theory</i> 11	Orientation to occupational therapy	1
<i>Physiology</i> 55 or 157	Basic human physiology	2
<i>Clinical Subjects</i> 101	General medicine and surgery	2
<i>Kinesiology</i> 105	Applied anatomy and kinesiology	2
<i>Anatomy</i> 155	Human anatomy	3
<i>O.T. Fine Arts</i> 15	General crafts and needlecrafts	3
<i>O.T. Fine Arts</i> 17	Leatherwork	1
<i>O.T. Fine Arts</i> 35	Weaving	2
<i>O.T. Fine Arts</i> 167	Woodwork	2
<i>Rehabilitation</i> 115	Occupational analysis and prevocational evaluation	1
<i>Total points</i>		19

Spring Session

<i>O.T. Theory 12</i>	Application in major medical fields	2
<i>O.T. Theory 24</i>	Application to orthopedic and neurological disabilities	2
<i>Clinical Subjects 102</i>	Orthopedics and public health	2
<i>Psychiatry 102</i>	Elementary psychiatry	2
<i>Neurology 106</i>	Clinical neurology	2
<i>Rehabilitation 118</i>	Agencies and personnel in rehabilitation	2
<i>O.T. Graphic Arts 1R</i>	Art of hand printing	1
<i>O.T. Fine Arts 26</i>	Pottery	2
<i>O.T. Fine Arts 106</i>	Interpretive design	2
<i>O.T. Fine Arts 168</i>	Metal work and jewelry	2
		<i>Total points</i> 19

July–April: Nine months of clinical practice in specified areas of service

Additional requirements for all certificate candidates:

1. Attendance at a weekly seminar during the spring session. Discussions in this seminar are concerned with advanced theory, principles, and practice of occupational therapy.
2. A paper to be written during the clinical practice period in an area of particular interest to the student and related to clinical experiences. This paper is to be submitted two months prior to the completion of clinical practice.

HOSPITALS AND AGENCIES AFFILIATED FOR CLINICAL PRACTICE

The nine to twelve months of clinical practice consist of full-time practical experience in well-organized and carefully supervised occupational therapy departments under the immediate direction of registered occupational therapists. Clinical practice must be completed within one year following termination of academic work. During this period students attend lectures, clinics, staff meetings, and orientation in related treatment departments, conduct special case studies, and meet other educational requirements.

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ACADEMIC CALENDAR, 1958-1959

WINTER SESSION

- September 22 Monday, through September 24, Wednesday. Registration, including payment of fees.*
- September 25 Thursday. Classes begin.
- October 4 Saturday. Last day for making changes in programs.
- October 29 Wednesday. Award of October degrees and certificates.
- November 4 Tuesday. Election Day. Holiday.
- November 27 Thursday, through November 30, Sunday. Thanksgiving holidays.
- December 1 Monday. Last day for filing application or renewal of application for degrees and certificates to be awarded in February.†
- December 22 Monday, through January 4, Sunday. Christmas holidays.
- January 19 Monday, through January 29, Thursday. Midyear examinations.

SPRING SESSION

- February 2 Monday through February 3, Tuesday. Registration, including payment of fees.*
- February 4 Wednesday. Classes begin.
- February 14 Saturday. Last day for making changes in programs.
- February 25 Wednesday. Award of February degrees and certificates.
- March 2 Monday. Last day for filing application or renewal of application for all degrees and certificates to be conferred in June.†
- March 22 Sunday, through March 29, Sunday. Easter holidays.
- May 18 Monday, through May 28, Thursday. Final examinations.

COMMENCEMENT

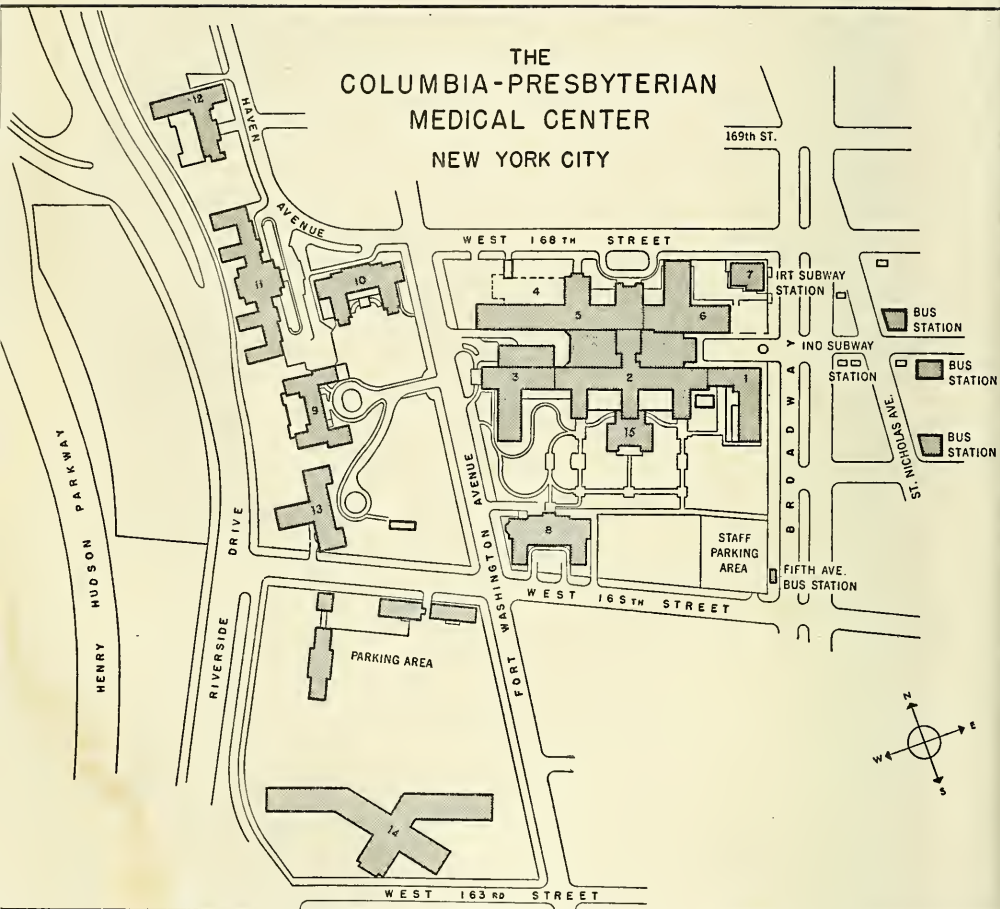
- May 31 Sunday. Baccalaureate Service.
- June 2 Tuesday. Conferring of degrees and certificates.

-
- August 3 Monday. Last day for filing application or renewal of application for degrees and certificates to be awarded in October.†

* Students allowed to register after the period specified must pay a late fee.

† Students who file application after this date must pay a late fee.

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| 3. N. Y. ORTHOPAEDIC HOSPITAL | 9. MAXWELL HALL |
| 4. SLOANE HOSPITAL | 10. NEUROLOGICAL INSTITUTE |
| 5. SQUIER UROLOGICAL CLINIC | 11. N. Y. STATE PSYCHIATRIC INSTITUTE |
| 6. HARKNESS PAVILION | 12. BARD HALL |
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| 8. POWER HOUSE | 14. FRANCIS DELAFIELD HOSPITAL,
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